Rare Native Vascular Plants of British Columbia

by George W. Douglas, Del Meidinger and Jenifer L. Penny

BRITISH COLUMBIA

MARCH 2002

British Columbia, Canada's most westerly province, has a bounty of biological diversity. British Columbia's snowclad peaks, rain-drenched forests, arid grasslands, all sizes of rivers, lakes, and wetlands, and a long and rugged coast provide habitats for more species of living organisms than are found anywhere else in Canada. However, this very diversity means that there is much to be discovered about these organisms — their distribution, abundance, habitat requirements, and interrelationships with their environment. Increasing our knowledge of this biodiversity will help us with the complex task of sustainably managing our land and waters.

In 1992, the provincial government initiated a co-operative biodiversity research program with funding from the Corporate Resource Inventory Initiative, the British Columbia Ministries of Forests (Research Branch), Environment, Lands, and Parks (Wildlife and Habitat Protection Branches), Tourism and Culture (Royal B.C. Museum), and the Forest Resource Development Agreement (FRDA II).

In 1995, the Ministry of Forests Research Branch and the Ministry of Environment, Lands and Parks developed a biodiversity research and extension strategy, with the assistance of the provincial research community. This strategy was presented to Forest Renewal BC (FRBC), who provided funding for a program beginning in 1995. The goal of the extension component of this program is to extend information to scientists, resource managers, and the public through biodiversity publications. These publications are intended to increase awareness and understanding of biodiversity, promote the concepts and importance of conserving biodiversity, and communicate provincial government initiatives related to biodiversity. We hope that they will be used as tools for the conservation of British Columbia's rich, living legacy.

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George W. Douglas[1], Del Meidinger[2] and Jenifer L. Penny[1]

March 2002

SECOND EDITION

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Dr. R.J. Soreng – *Poa*
Ms. H. Stewart – *Elymus* and *Hesperostipa*
Dr. G.B. Straley – *Arabis, Primula,* and *Samolus*

This manual is dedicated
to the late Gerald B. Straley — friend, colleague,
and co-author of the first edition.

PREFACE

This report consists of the current Red and Blue Lists of native vascular plants at risk in British Columbia endorsed by the Ministry of Sustainable Resource Management. This is part of an ongoing report series on biota considered at risk in the province. These listings are based on the best available data and opinion of professional biologists; they have been subjected to extensive technical review.

Listing does not convey a legal status for the taxa, rather it assists in setting conservation priorities for inventory, statusing, and as necessary, recovery efforts. The Red List may also be used to provide a list of taxa for potential legal designation as Endangered or Threatened under the *Wildlife Act*, once the definition of wildlife is expanded to include plants.

The Red List includes any indigenous species or subspecies (taxa) considered to be extirpated, endangered, or threatened in British Columbia. Extirpated taxa no longer exist in the wild in British Columbia, but do occur elsewhere. Endangered taxa are facing imminent extirpation or extinction. Threatened taxa are likely to become endangered if limiting factors are not reversed. Red-Listed taxa include those that have been, or are being, evaluated for these designations. The Blue List includes any indigenous species or subspecies (taxa) considered to be of special concern (vulnerable) in British Columbia. Taxa are of special concern because of characteristics that make them particularly sensitive to human activities or natural events. Blue-Listed taxa are at risk, but are not extirpated, endangered or threatened. The Blue List also includes species that are generally suspected of being vulnerable, but for which information is too limited to allow designation in another category.

As a "conservation triage", these lists indicate taxa that have population characteristics, population trends, or distributions that indicate they require special attention if they are to be maintained as part of the flora of British Columbia. The Red and Blue Lists are also being used in the Forest Practices Code to identify endangered and threatened wildlife (which includes plants in its definition) that require attention under forest development, silvicultural, and range use operational plans.

The Ministry anticipates that lists will be updated no more frequently than every year. These lists and the associated information are intended to share our present understanding on species at risk with all our management partners. By achieving improved management of wildlife at risk (including freshwater fish, terrestrial vertebrates, invertebrates, and plants), it is hoped there will be a steady reduction in the number of listed species and an improvement in their status.

FSchultz

Fern Schultz
Director, Terrestrial Information Branch

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Sharon Hartwell made numerous corrections and constantly kept track of the rare species and their rank changes throughout the project. Sarbjeet Mann extracted a large portion of the habitat/range text from the *Illustrated Flora of British Columbia* (Vols. 1-8) to create much of the present text. Adrian Walton produced the database of biogeoclimatic zones and Tina Lee compiled that information into the manuscript. Maps were produced by Sarbjeet Mann, Sharon Hartwell and Steve Moslin.

George Douglas is solely responsible for the final composition of the manuscript, with respect to rare plants, the production of maps and choice of illustrations. Typesetting was done by Frances Hunter, and production of the final flora was coordinated by Gail Harcombe. Cover design was created by Annie Weeks.

Thanks are also due to the curators of all the herbaria visited since the CDC botanical program commenced. Despite the severe reduction in herbaria funding and staffing throughout Canada, these curators make an exceptional effort to provide good working conditions and support whenever taxonomists visit their institutions. In many cases, the reductions have essentially paralyzed the operation of some herbaria. This is of major concern to the BC CDC since the production of this rare plant manual would not have been possible without the various vascular plant collections and the curators who manage them.

The herbaria curators and staff include: George Argus and Michael Shchepanek (The National Herbarium, National Museums, Ottawa); John Pinder-Moss, Adolf Ceska, Jim Cosgrove, Joan Kerik, Lesley Kennes and Ken Marr (Herbarium, Royal British Columbia Museum, Victoria); William Cody, Giselle Mitrow and Paul Catling (Vascular Plant Herbarium, Department of Agriculture, Ottawa); Fred Ganders, Helen Kennedy, Olivia Lee and Jack Maze (Herbarium, Department of Botany, University of British Columbia, Vancouver); Brenda Costanzo and Gerry Allen (Herbarium, Department of Biology, University of Victoria); Ray Coupé and Anna Roberts (Herbarium, BC Ministry of Forests, Williams Lake) and Jim Pojar and Karen McKeown (Herbarium, BC Ministry of Forests, Smithers).

Original illustrations were prepared by Donald Gunn, Gail Harcombe, Jane Lee Ling, Sherry Mitchell, Lora May Richards, Elizabeth J. Stephen and Karen Uldall-Ekman. Appreciation is extended to the National Resource Council Research Press, National Museums, Canada and Agriculture Canada for use of several additional drawings. Many illustrations were also provided from Hitchcock et al. (1955-1969) with permission of the University of Washington Press.

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INTRODUCTION

Rare native vascular plants represent a large and important segment of the flora of British Columbia (BC). Of the total 2316 native vascular plant taxa, 617 are considered rare. More than 200 of these taxa are rare due to human activities affecting the habitats of the plants. The remaining plants are naturally rare, consisting mostly of peripheral species.

The major purpose of this manual is to assist land and resource managers and planners in carrying out rare plant species mandates within their management jurisdictions. The manual provides a general overview of all species on the Ministry of Sustainable Resource Management native vascular plant Red and Blue lists. It will also focus concern on those species in need of immediate action: i.e., those species on the Red List. Professional and amateur botanists and plant ecologists will find it useful in guiding their floristic projects.

The first documentation of the rare native vascular plants of the province was published in *Vascular Plants of British Columbia: A Descriptive Resource Inventory* by Taylor and MacBryde (1977). This manuscript provided the basis for *The Rare Plants of British Columbia* by Straley *et al.* (1985). Further documentation of BC's rare plants appeared in *The Vascular Plants of British Columbia* by Douglas *et al.* (1989, 1990, 1991, 1994b). The latter was the first floristic work based on existing BC collections from herbaria throughout Canada. That treatment and data acquired up to 1994 provided the basis for the *Rare Native Vascular Plants of British Columbia* (Douglas *et al.* 1998a). With the recent completion of the *Illustrated Flora of British Columbia* (Douglas *et al.* 1998b, 1998c, 1999a, 1999b, 2000, 2001a, 2001b, 2002) and additional accumulation of data (60 new taxa and over 3000 new records) over the past seven years by the BC Conservation Data Centre (CDC), it became obvious that a revision of the *Rare Native Vascular Plants of British Columbia* was necessary.

CDC DATABASE

With the creation of the BC CDC, rare plant research has intensified markedly. In the past ten years almost 10,000 collections of about 800 different vascular plant taxa were examined in all major herbaria in Canada and many of BC's smaller regional herbaria. In addition, more recent fieldwork conducted by BC CDC botanists and numerous other botanists has also been incorporated into the Centre's database.

The BC CDC is one of 75 independent centres for the collection of data about the plants, animals and natural plant communities of the Western Hemisphere. These programs, known collectively as the Natural Heritage Network, share a common set of standards for data collection and management. This allows data from different programs to be shared and combined.

The role of the BC CDC is to gather, manage, and distribute detailed information about British Columbia's biological diversity. The BC CDC is the leading source of information on the exact locations and conditions of rare species and natural plant communities of the province.

The BC CDC maintains and continuously updates a computerized database that tracks the conservation status of each rare species or community and the precise location and status of each known population. Location records are mapped using a GIS and each has an additional and extensive textual component.

Readers are encouraged to visit the CDC web site at **http://srmwww.gov.bc.ca/cdc/.** The web site has a more extensive explanation of the program, and information about how to access the data.

Alternatively, readers may contact the:

Data Manager
Conservation Data Centre, Ministry of Sustainable Resource Management
PO Box 9993 Stn Prov Govt, Victoria B.C. V8W 9R7
(250-356-0928)

Readers are also encouraged to contribute information to the BC CDC about any of the rare plants appearing in this manual. Help from professional and amateur botanists outside of the CDC program advances our knowledge more quickly. The most recent versions of CDC Field Observation Forms are available at the web site listed above. For readers without Internet access, see Appendix 1, Figure 5. Plant inventory and collecting techniques are also documented in Appendix 1.

FORMAT

This manual treats all of the rare native vascular plants occurring within the borders of BC and includes all of the Red- and Blue-Listed plants currently being tracked by the BC CDC. The main text has been extracted from the *Illustrated Flora of British Columbia* (Douglas *et al.* 1998b, 1998c, 1999a, 1999b, 2000, 2001a, 2001b). Each plant in the main text is accompanied by an illustration and a distribution map. Site locations are indicated by either solid circles (extant sites [post-1949]) or hollow circles (historic sites [pre-1950]).

Since many of the land and resource managers and planners are not familiar with vascular plant families, the text is arranged alphabetically by genera and species. For each taxon the following information is included:

Scientific Names:	Taxonomy and nomenclature follows Douglas *et al.* (1998b, 1998c, 1999a, 1999b, 2000, 2001a, 2001b, 2002).
Synonyms:	Synonyms are given when there are references in major floristic treatments to a given taxon by another name or names.
English Names:	These follow Douglas *et al.* (1998b, 1998c, 1999a, 1999b, 2000, 2001a, 2001b, 2002) and are based mainly on names appearing most commonly in the western North American literature. Sometimes additional names (not bolded) are included. These are names that are also encountered frequently in regional literature. The latter names are included to aid in literature searches, where necessary, and are not recommended for BC users. The main users of this manual (resource managers and planners, botanists and

plant ecologists) should always refer to the scientific names. Literature searches and communications among these users, based on the sometimes ambiguous English names, will often prove fruitless. In addition, most rare plants do not have well-used English or "common" names.

Habitat and Moisture Regime:

A brief description of a species habitat preference, including moisture regime, is provided. The latter uses a general (wet – moist – mesic – dry) scale. For many of our species, our knowledge of their habitat is extremely poor, due both to a lack of literature and the extremely poor content of our herbaria collection labels. The latter problem still persists with plant collections made in recent times, thus some of the habitats listed are taken from information given for adjacent jurisdictions as well as BC collections.

Vegetation Zones:

The elevational and climatic limits of a species are presented using vegetation zones: lowland, montane, steppe, subalpine, and alpine. In some cases, although the taxon may be found in a particular zone in some part of its range, it may not have been found in that zone as yet in BC. The zonal system used here, unlike some of the more localized zonation systems (Krajina 1965; Rowe 1959, 1972; Franklin and Dyrness 1973), has wide application in the northern hemisphere and differs only slightly from that proposed by Dansereau (1957) and Meusel *et al.* (1965) and recommended by Löve (1970). The **montane zone** includes all continuous forests in BC except for the coastal lowlands and some islands that are included in the **lowland zone**. The upper forest in BC, included by some local ecologists (e.g., Krajina 1965) in the subalpine zone, is considered the **upper montane zone** in this work. The **subalpine zone** is defined as that area above the montane zone and below the upper limit of conifers as an upright tree form (Douglas 1972). In the southern part of the province, subalpine vegetation consists of a meadow/tree-clump complex (Douglas 1971, 1972), while in the northern part of the province the subalpine zone is dominated by tall shrubs (mainly three- to four-metre *Salix*) and scattered trees (Douglas 1974; Krajina 1975). Above the subalpine is the **alpine zone,** where trees occur only in krummholz (or dwarfed) form and the vegetation is extremely short (less than one metre) and commonly referred to as alpine tundra (Krajina 1969; Douglas 1972; Douglas and Bliss 1977). The **steppe zone** (Daubenmire 1970) occurs in the interior of the province and includes what is often referred to as sagebrush or grassland vegetation. The former occurs at lower elevations in the Chilcotin, Thompson, Okanagan, Kootenay, and Columbia River valleys in southern BC while the latter includes parts of the Fraser and Thompson plateaus and upper Peace River drainage.

Biogeoclimatic Zones: In recent years, considerable research by the BC Ministry of Forests (Meidinger and Pojar 1991) has resulted in a comprehensive ecosystem classification for BC. The broadest unit in this classification is the biogeoclimatic zone. Zones are divided into subzones and variants. In this manual, the distribution of each taxon within one or more biogeoclimatic units is given within the text for collection sites in BC. Abbreviations for these biogeoclimatic zones (Figure 1) are as follows:

Alpine Tundra	AT
Bunchgrass	BG
Boreal White and Black Spruce	BWBS
Coastal Douglas-fir	CDF
Coastal Western Hemlock	CWH
Engelmann Spruce – Subalpine Fir	ESSF
Interior Cedar – Hemlock	ICH
Interior Douglas-fir	IDF
Mountain Hemlock	MH
Montane Spruce	MS
Ponderosa Pine	PP
Sub-Boreal Pine – Spruce	SBPS
Sub-Boreal Spruce	SBS
Spruce – Willow – Birch	SWB

Subzone abbreviations are two letter, lower case alphabetic codes following the zone code; variants are numbered sequentially. See **http://www.for.gov.bc.ca/research/becweb/becinfo/** for more information on biogeoclimatic classification and codes.

Phytogeography: The general range of an element is given when the range extends outside of North America.

Sites: Sites are given if an element is known from only one or two extant (>1949) sites.

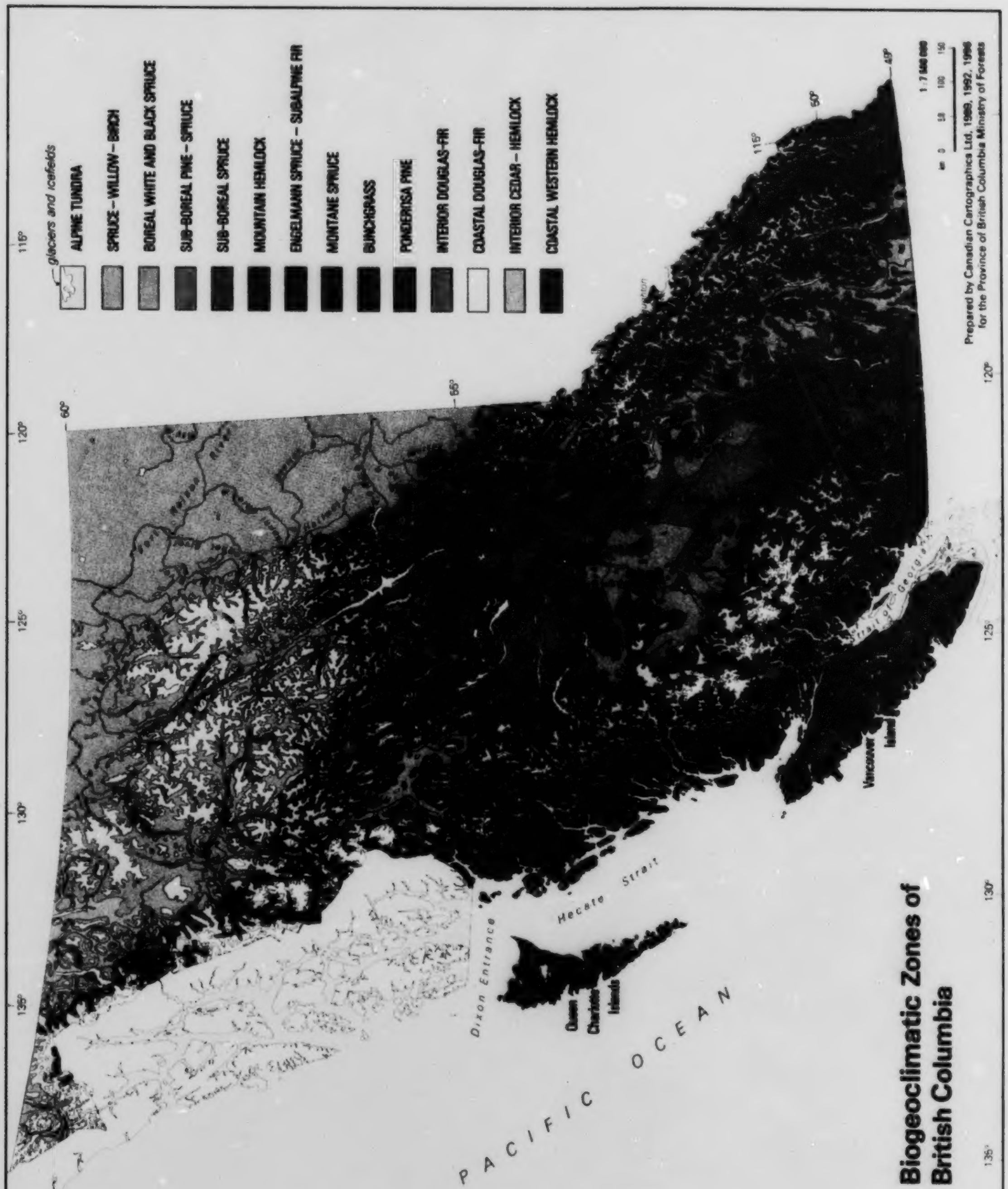

glaciers and icefields
ALPINE TUNDRA
SPRUCE – WILLOW – BIRCH
BOREAL WHITE AND BLACK SPRUCE
SUB-BOREAL PINE – SPRUCE
SUB-BOREAL SPRUCE
MOUNTAIN HEMLOCK
ENGELMANN SPRUCE – SUBALPINE FIR
MONTANE SPRUCE
BUNCHGRASS
PONDEROSA PINE
INTERIOR DOUGLAS-FIR
COASTAL DOUGLAS-FIR
INTERIOR CEDAR – HEMLOCK
COASTAL WESTERN HEMLOCK
Biogeoclimatic Zones of British Columbia
PACIFIC OCEAN
Queen Charlotte Islands
Vancouver Island
Dixon Entrance
Hecate Strait
Strait of Georgia
1 : 7 500 000
km 0 50 100 150
Prepared by Canadian Cartographics Ltd, 1989, 1992, 1996
for the Province of British Columbia Ministry of Forests
115°
120°
125°
130°
135°
140°
60°
55°
50°
49°

Figure 1. Biogeoclimatic zones of British Columbia.

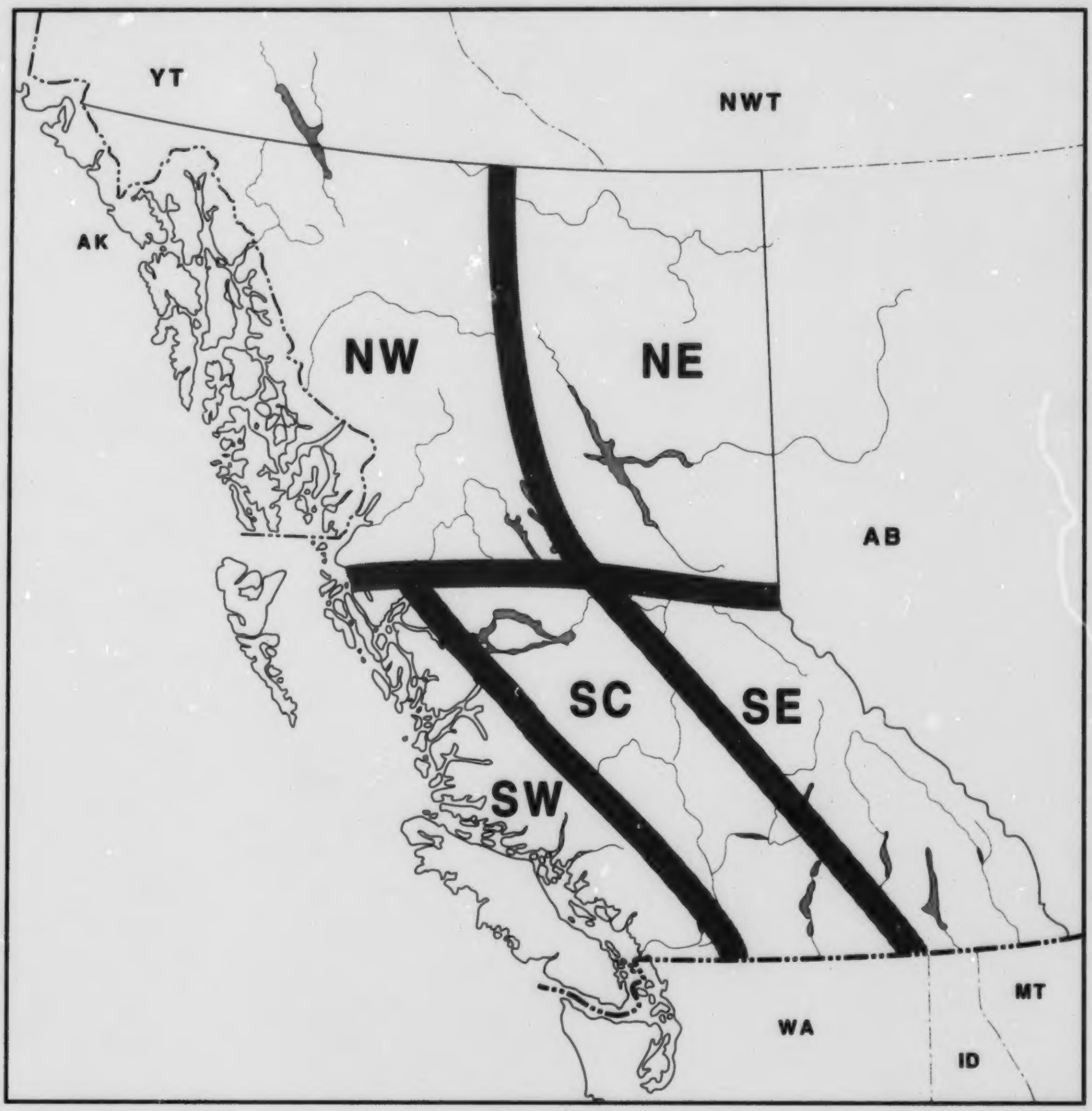

YT
NWT
AK
NW
NE
AB
SC
SE
SW
MT
WA
ID

Figure 2. Geographic regions of British Columbia.

Range: The general distribution of a species both within (Figure 2) and outside the province is presented. Abbreviations are as follows:

British Columbia	
Central	C
East	E
Eastcentral	EC
North	N
Northeast	NE
Northwest	NW
South	S
Southcentral	SC
Southeast	SE
Southwest	SW
West	W
Westcentral	WC

North America	
Alberta	AB
British Columbia	BC
Manitoba	MB
New Brunswick	NB
Newfoundland	NF
Northwest Territories	NT
Nova Scotia	NS
Ontario	ON
Prince Edward Island	PE
Quebec	PQ
Saskatchewan	SK
Yukon	YT
Alabama	AL
Alaska	AK
Arizona	AZ
Arkansas	AR
California	CA
Colorado	CO
Connecticut	CT
Delaware	DE
District of Columbia	DC
Florida	FL
Georgia	GA
Hawaii	HI
Idaho	ID
Illinois	IL
Indiana	IN
Iowa	IA
Kansas	KS
Kentucky	KY
Louisiana	LA
Maine	ME
Maryland	MD
Massachusetts	MA
Michigan	MI
Minnesota	MN
Mississippi	MS
Missouri	MO
Montana	MT
Nebraska	NE
Nevada	NV
New Hampshire	NH
New Jersey	NJ
New Mexico	NM
New York	NY
North Carolina	NC
North Dakota	ND
Ohio	OH
Oklahoma	OK
Oregon	OR
Pennsylvania	PA
Rhode Island	RI
South Carolina	SC
South Dakota	SD
Tennessee	TN
Texas	TX
Utah	UT
Vermont	VT
Virginia	VA
Washington	WA
West Virginia	WV
Wisconsin	WI
Wyoming	WY
Mexico	MX

Global/Provincial Conservation Status Ranks: Each "element" (e.g., a species, subspecies or variety) on the CDC's Red/Blue lists is ranked using the system developed over the past 20 years by NatureServe (formerly The Nature Conservancy [US]). This system is now in use in all Canadian provinces, US states and a number of Latin American countries. Most government agencies within these jurisdictions have also adopted this ranking system.

Each element is ranked at two levels: global (G or T [if the element is a subspecies or variety]) and provincial, or "subnational" (S). The global rank is based on the status of the element throughout its entire range whereas the provincial rank is based solely on its status within BC. The global rank is established by a botanist assigned to that element by NatureServe. The provincial rank cannot exceed (be 'less rare than') the global rank. Combined ranks are occasionally given for global or provincial ranks (e.g., G4G5, G5T4T5 or S3S4) when the exact rank is uncertain.

The status of an element is indicated on a scale of one to five (Table 1). The rank is based primarily on the number of extant (post-1949) occurrences of the element, but other factors such as abundance, range, protection, and threats are also considered if the information is available. Generally speaking, the CDC will list only those species with ranks of 1-3 for S and 1-3 for G or T. In addition to the numeric ranks 1-5, there are several modifying letter ranks (Table 2).

Table 1. CDC Conservation Status Ranks and Definitions (S = Provincial, G = Global).

X	**Presumed Extirpated or Extinct** – not located despite intensive searches and no expectation that it will be rediscovered.
H	**Historical** – not located in the last 50 years, but some expectation that it may be rediscovered.
1	**Critically Imperiled** – because of extreme rarity or some factor(s) making it especially susceptible to extirpation or extinction. Typically 5 or fewer extant[1] occurrences or very few remaining individuals.
2	**Imperiled** – because of rarity or some factor(s) making it very susceptible to extirpation or extinction. Typically 6 to 20 extant occurrences or few remaining individuals.
3	**Vulnerable** – because rare and local, found only in a restricted range (even if abundant at some locations), or because of some other factor(s) making it susceptible to extirpation or extinction. Typically 21 to 100 extant occurrences.
4	**Apparently Secure** – because uncommon but not rare, and usually widespread. Possible cause for long-term concern. Typically more than 100 extant occurrences.
5	**Secure** – because common to very common, typically widespread and abundant, and essentially under no threat under present conditions.
U	**Unrankable** – due to current lack of available information.
S#S#	**Range Rank** – a numeric range (e.g. S2S3) is used to indicate the range of uncertainty about exact status.
E	**Exotic** – an introduction to the province.

Table 2. Rank modifiers.

?	Inexact or uncertain due to limited information; qualifies the immediately preceding character.
Q	Taxonomic status is not clear or is in question.
T	Designates a rank associated with a subspecies or variety.
Q =	Taxonomic validity of the element is not clear or in question

Notes: Specific items of interest or problems are noted. In some cases, where pertinent, specific references are cited. An extensive bibliography is provided in Douglas *et al.* (1998-2001) for most of the taxa of the vascular plant families in BC, thus it has not been repeated here. Historic (pre-1950) or extant (post-1949) collection dates are given for some taxa.

RED LIST

The Red List includes any indigenous native vascular plant species or subspecies (taxa) considered to be extirpated, endangered, or threatened in British Columbia. Extirpated taxa no longer exist in the wild in British Columbia, but do occur elsewhere. Endangered taxa are extremely rare, facing imminent extirpation or extinction. Threatened taxa are likely to become endangered if limiting factors are not reversed. Red-listed taxa also include those that have been, or are being, evaluated for these designations. Most of these plants occur in endangered or threatened habitats.

There are 271 vascular plants on the Red List. Two hundred and fifty-one of these plants, ranked S1 or S2, are *extant* (specimens collected since 1949). Sixteen more, ranked SH, are *historic* (specimens collected prior to 1950). The final 4 plants, ranked SX, have probably been *extirpated* from the province. Of the 251 extant plants on the Red List, 23 are also *globally rare* (G1, G2, G2G3, T1, T2 or T2T3) and 6 are *globally important* (G3 or T3). If not for their global importance, several of these would otherwise be placed on the Blue List.

BLUE LIST

The Blue List includes any rare indigenous species or subspecies (taxa) considered to be of special concern (vulnerable) in British Columbia. Taxa are of special concern because of characteristics that make them particularly sensitive to human activities or natural events. Blue-listed taxa are at risk, but are not extirpated, endangered or threatened. The Blue List also includes species that are generally suspected of being vulnerable, but for which information is too limited to allow designation in another category. Some of these taxa have rarely been collected, but they occur in remote areas with extensive appropriate habitat, and additional populations almost certainly occur.

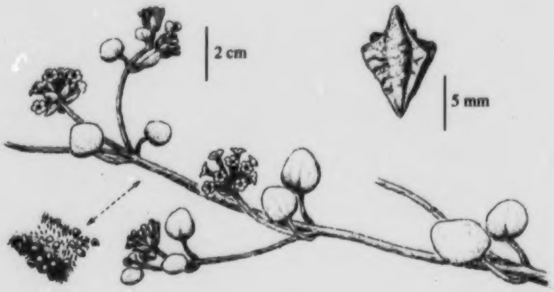
There are 346 vascular plants on the Blue List. Three hundred and three species, ranked S2S3, are known from 20 or fewer *extant* (post-1949) locations in the province. Eighteen of these 303 plants are also *globally important* (G3 or T3). An additional 43 species, ranked S3, are known from more than 20 *extant* locations but are still considered provincially rare. Ten of these 43 species are *globally important* (G3 or T3).

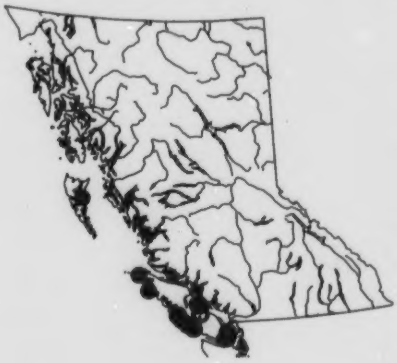
Abronia latifolia **Eschsch.**

yellow sand-verbena

Habitat/Range: Moist coastal beaches and sand dunes in the lowland zone (CDFmm, CWHvh1, CWHxm); rare on the Queen Charlotte Islands, Vancouver Island and the Gulf Islands; S to CA.

Global/Provincial Rank: G5 S3 Status: Blue





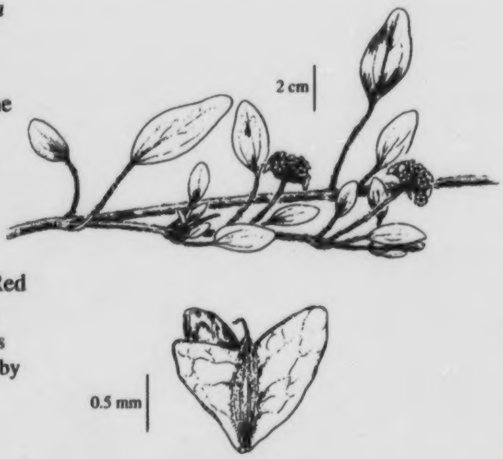
Abronia umbellata **Lam. ssp.** ***acutalata*** **(Stand.) Till.** (*A. acutalata* Stand.)

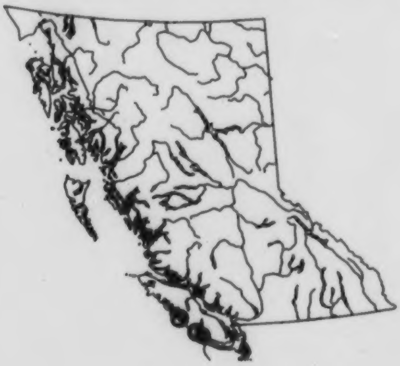
pink sand-verbena

Habitat/Range: Coastal sandy beaches below the driftwood zone in the lowland zone (CWHvh1); rare on the W coast of Vancouver Island, known only from Ahousat and Pachena Bay (in 1915 and 1927, respectively) and more recently, in 2000, from Clo-oose Beach, Pacific Rim National Park; S to WA.

Global/Provincial Rank: G4G5T1 S1 Status: Red

Notes: This regional endemic is ranked SX (extirpated) in WA. It was also previously ranked as SX in BC (Douglas *et al.* 1998a). Two plants of this species were rediscovered in 2000 and subsequently destroyed by a winter storm that year (Douglas 2001). In May 2001 three plants reappeared at the same site, thus we have now ranked it S1.



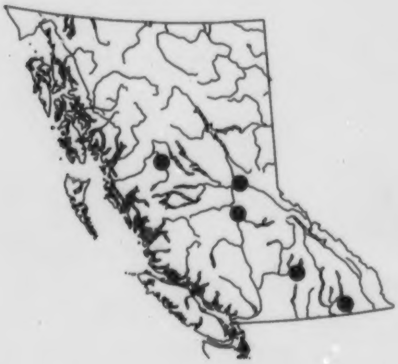


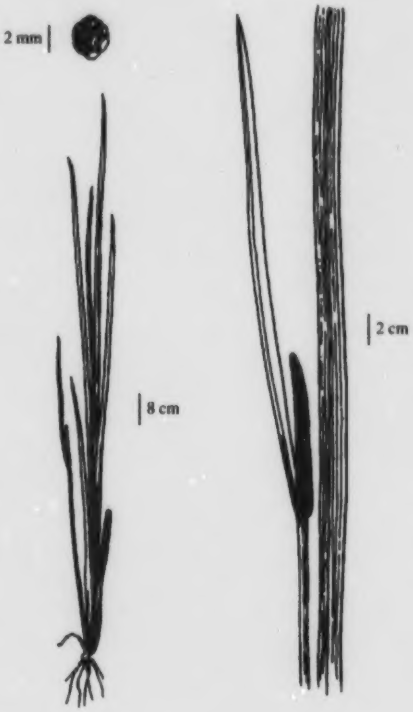
Acorus americanus **(Raf.) Raf.** (*A. calamus auct. non* L.)

American sweet-flag

Habitat/Range: Shallow water in the montane zone (ICHxw, IDFmw2, SBSdk, SBSmh, SBSwk1); rare in BC E of the Coast-Cascade Mountains S of 55°N; N to AK and NT, E to PQ and NB and S to ME, PA, VA, IL, IA, NE, MT, ID and WA.

Global/Provincial Rank: G5 S2S3 Status: Blue





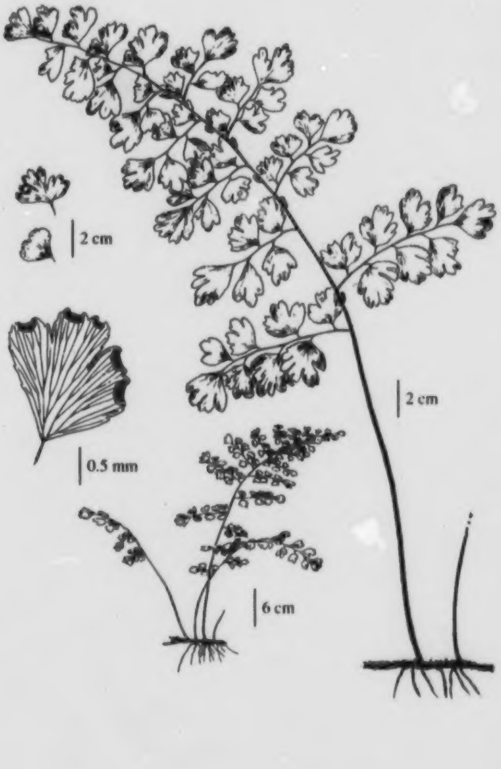
Adiantum capillus-veneris **L.**

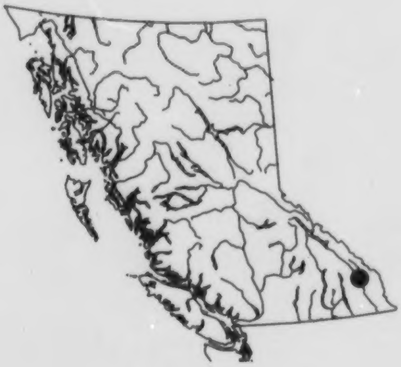
southern maiden-hair

Habitat/Range: Wet rock walls and tufa seeps in the montane zone (IDFdm2); rare in SE BC, known only from Fairmont Hot Springs; cosmopolitan, disjunct, S to ME, NH, PA, NC, FL, MS, LA, TX, NM, AZ and CA; Europe, S Asia, Africa, S America, Australia.

Global/Provincial Rank: G5 S1 Status: Red

Notes: In Canada, this species has led a precarious existence. In 1984, 68 sterile fronds were found growing near a well-used bathhouse at the Fairmont Hot Springs Resort (Brunton 1983a, 1986a). By 2001, only a single frond existed at the latter site. In 2000, over 1000 more plants, many with fertile fronds, were located on a nearby site.



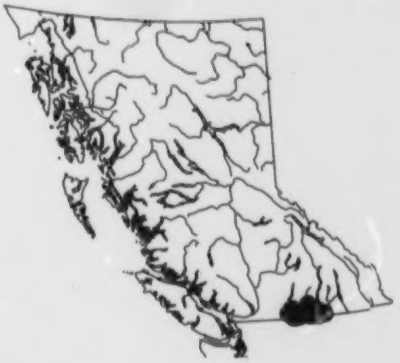


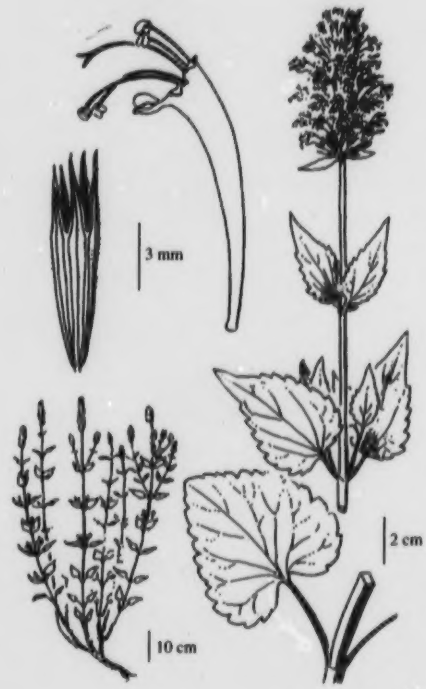
Agastache urticifolia (Benth.) Kuntze

nettle-leaved giant-hyssop

Habitat/Range: Dry, open slopes in the steppe and montane zones (BGxh1, ESSFdc1, ICHdw, ICHmk1, ICHmw2, IDFdm1, IDFxh1, MSxk, PPdh1, PPxh1a); rare in S BC east of the Coast-Cascade Mountains; S to CA and CO.

Global/Provincial Rank: G5 S3 Status: Blue





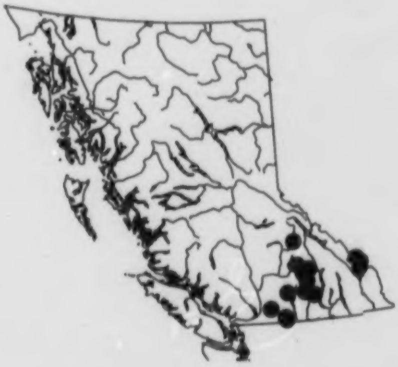
Agoseris lackschewitzii Henderson & Moseley

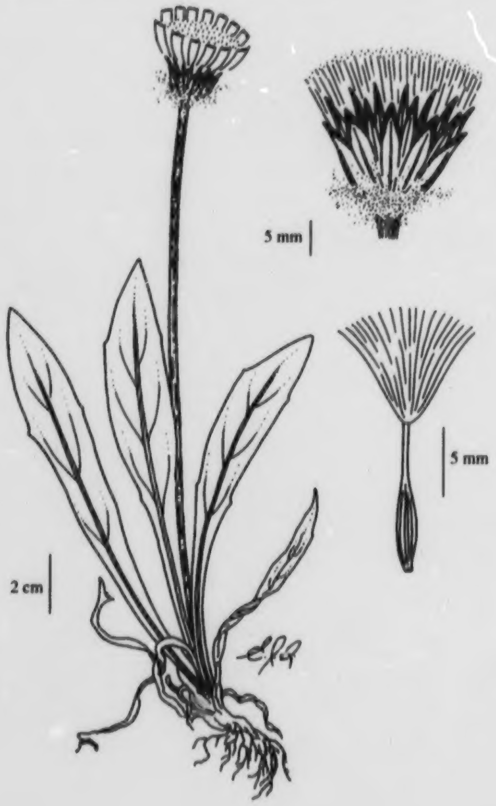
pink agoseris

Habitat/Range: Moist to mesic meadows in the montane and subalpine to lower alpine zones (AT, ESSFmw, ESSFwc4, ESSFwcp2, ESSFxc, ICHmw2, ICHmw3, ICHwk1, IDFdk1, MSdm2); rare in SC and SE BC; E to SW AB and S to NW MT and N ID.

Global/Provincial Rank: G4 S2S3 Status: Blue

Notes: This species was first collected in BC in 1991 (Douglas *et al.* 1994).



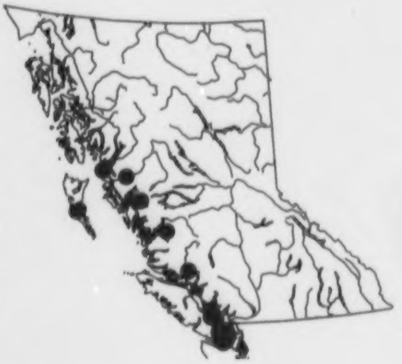


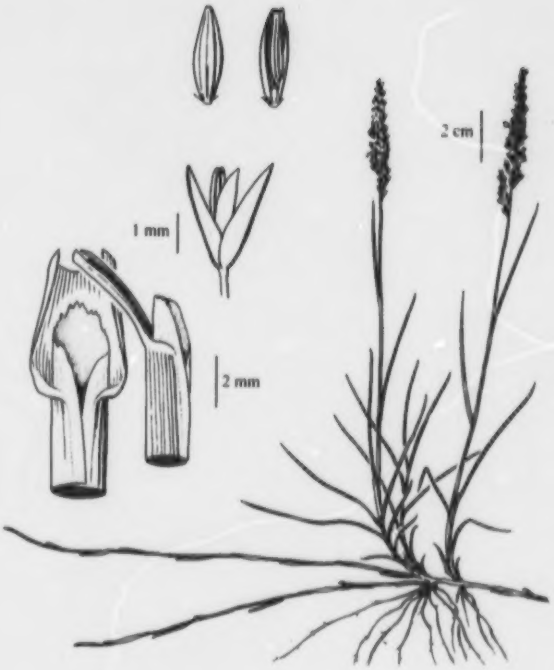
Agrostis pallens **Trin.** (*A. diegoensis* Vasey, *A. lepida* A.S. Hitchc.)

dune bentgrass

Habitat/Range: Mesic to moist sand dunes and rocky seacliffs in the lowland zone (CDFmm, CWHds2, CWHmm2, CWHvh2, CWHvm1, CWHxm1, CWHxm2); rare on S Vancouver Island and the WC coast; S to CA.

Global/Provincial Rank: G4G5 S3 Status: Blue



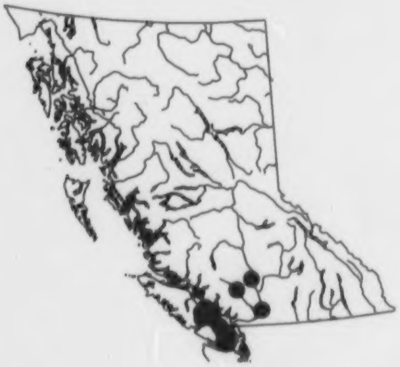


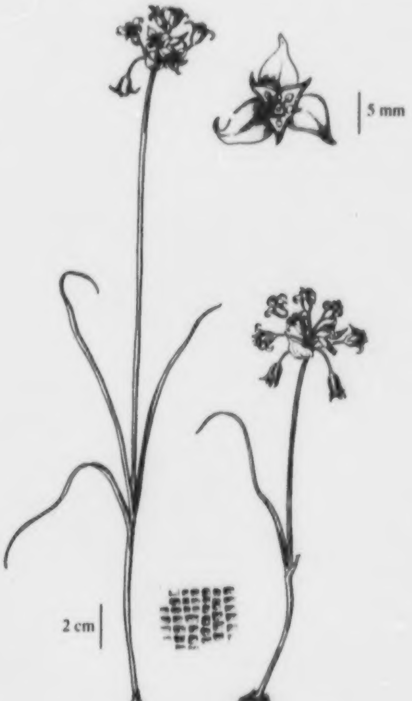
Allium acuminatum **Hook.**

Hooker's onion

Habitat/Range: Dry rocky bluffs and meadows in the lowland and steppe zones (CDFmm, CWHds1, CWHxm1, CWHxm2, PPxh2); rare on SE Vancouver Island, the Gulf Islands and the Fraser Valley, north to Lytton and Pemberton; S to NM, AZ and CA.

Global/Provincial Rank: G5 S3 Status: Blue



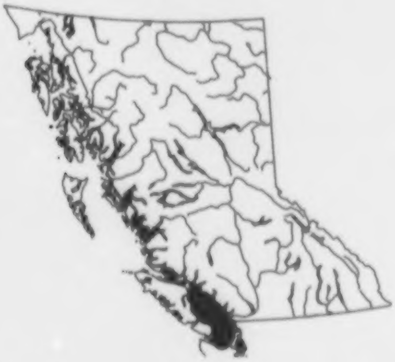


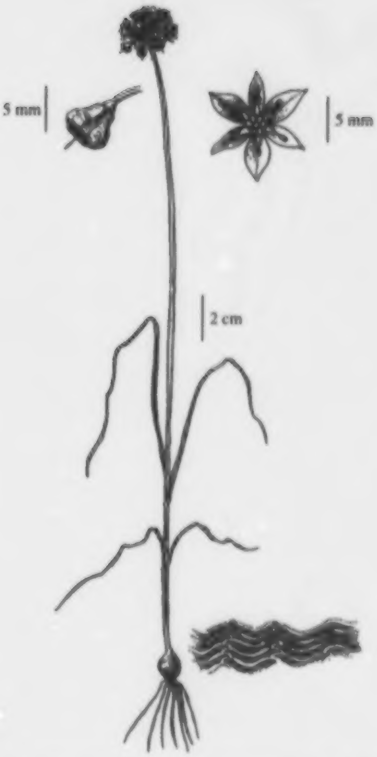
Allium amplectens **Torr.**

slimleaf onion

Habitat/Range: Dry fields and hillsides in the lowland zone (CDFmm, CWHxm1, CHWxm2); rare on S Vancouver Island, the Gulf Islands and the adjacent mainland (Powell River); S to CA.

Global/Provincial Rank: G4 S3 Status: Blue





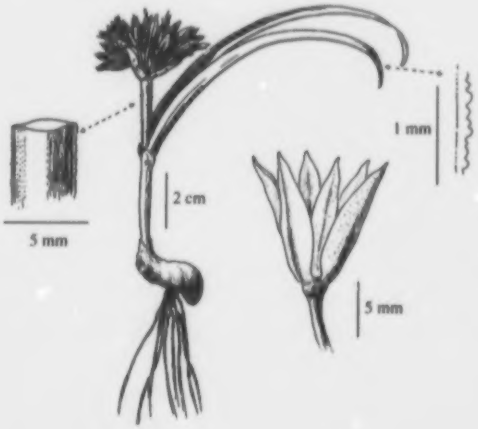
Allium crenulatum **Wiegand**

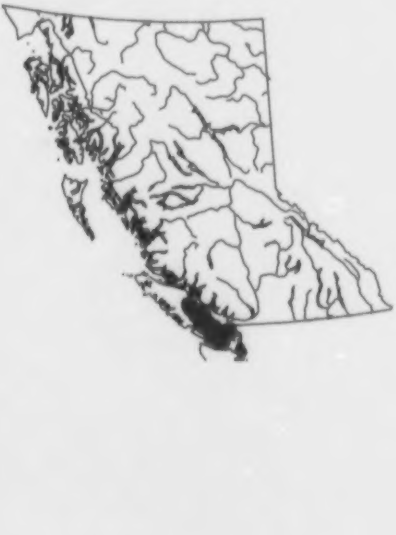
Olympic onion

Habitat/Range: Dry rock outcrops and rockslides in the montane and subalpine zones (CDFmm, CWHxm2, MHmm1); rare on Vancouver Island and the Gulf Islands; S to WA and SW OR.

Global/Provincial Rank: G4 S2 Status: Red

Notes: For colour illustration see Clark (1976).





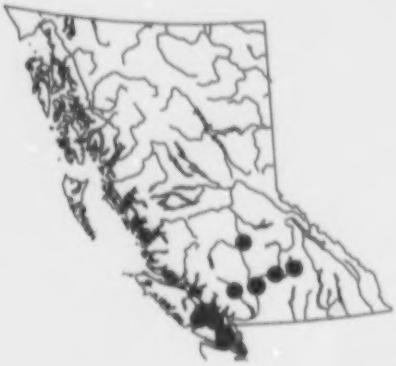
***Allium geyeri* S. Wats. var. *tenerum* M.E. Jones**

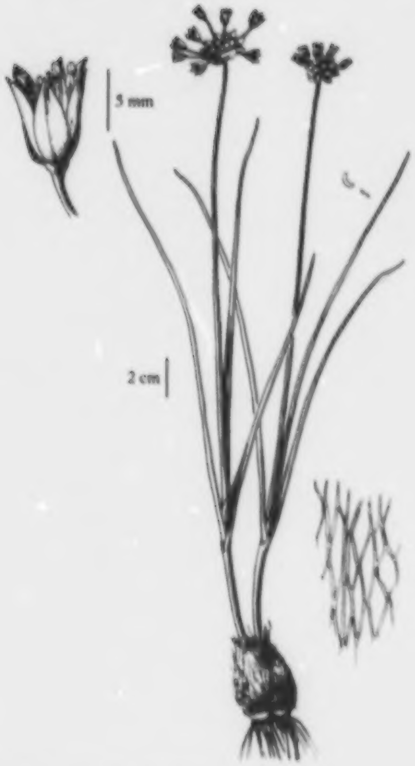
Geyer's onion

Habitat/Range: Moist meadows and rock outcrops in the lowland, steppe and montane zones (BGxw1, CDFmm, CWHxm2, ESSFxc, IDFdk2, IDFmw2, IDFww, IDFxm, MSxk); rare on Vancouver Island and in the Fraser and Thompson River valleys; E to MB and S to NM, AZ, NV and OR.

Global/Provincial Rank: G4G5T2 S2 Status:Red

Notes: All material identified as var. *geyeri* has been reidentified as var. *tenerum*.





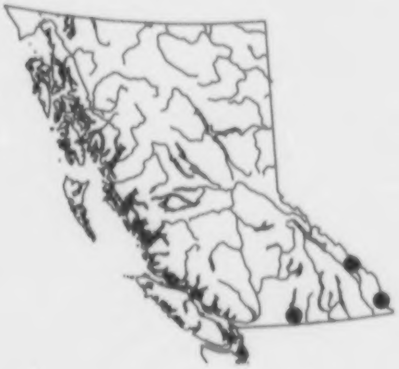
***Allium validum* S. Wats.**

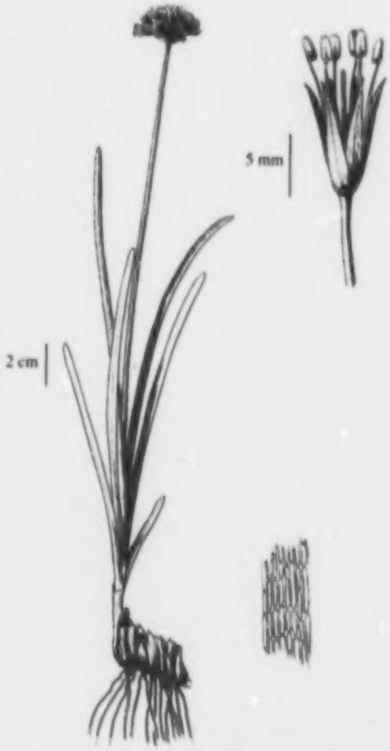
swamp onion

Habitat/Range: Moist meadows in the steppe and montane zones (ESSFdk, PPxh1); rare in SC and SE BC; S to ID, NV and CA.

Global/Provincial Rank: G4 S1 Status: Red

Notes: Although three sites were cited for this species by Straley et al. (1985), we have yet to locate voucher specimens or new material.



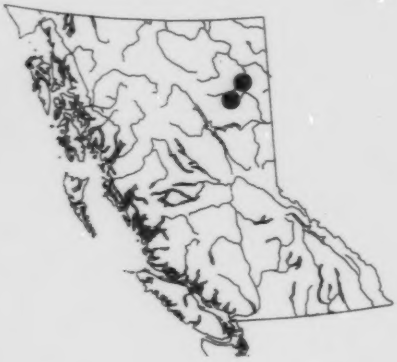


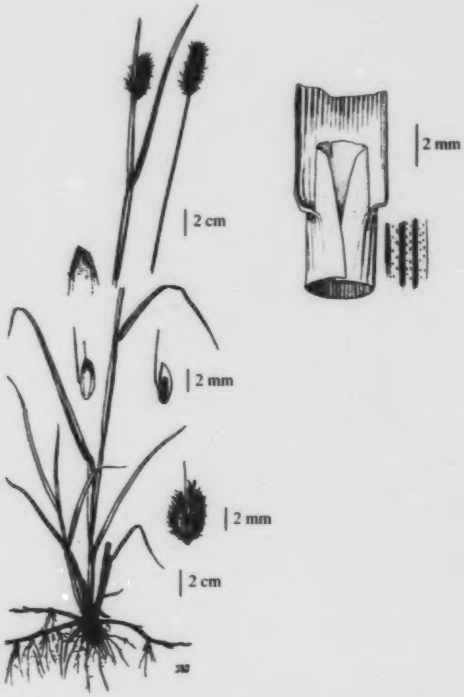
***Alopecurus alpinus* J.E. Sm.** (*A. alpinus* var. *glaucus* [Less.] Krylov)

alpine meadow-foxtail

Habitat/Range: Moist meadows in the montane to subalpine zones (BWBSwk2, SWBmk); rare in NE BC, known only from Beatton River and Pink Mountain; circumpolar, N to AK, YT and NT, E to Greenland and S to CO and UT; Eurasia.

Global/Provincial Rank: G5 S2S3 Status: Blue



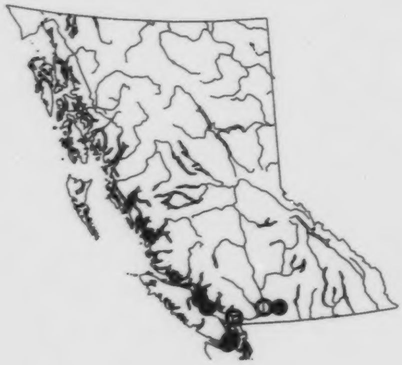


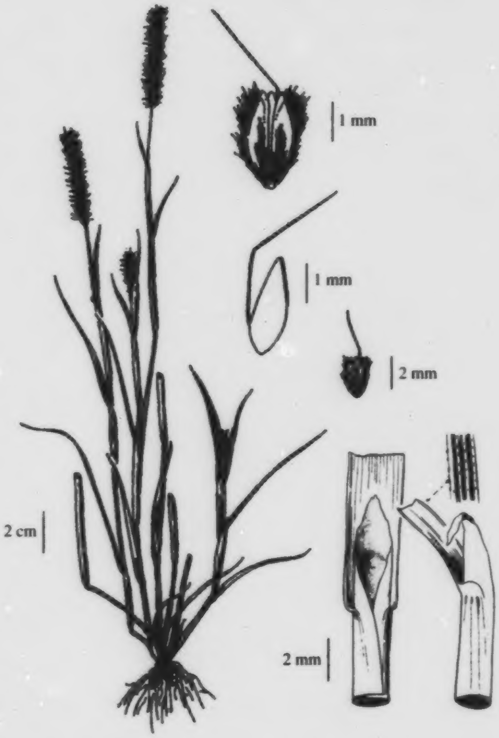
***Alopecurus carolinianus* Walt.** (*A. macounii* Vasey)

Carolina meadow-foxtail

Habitat/Range: Wet to moist vernal pools, roadsides and meadows in the lowland zone (CDFmm, CWHdm, CWHds1, IDFxh1); rare on S Vancouver Island, in the Gulf Islands, in the lower Fraser Valley, and in SC BC; E to S SK and S to to ME, MA, PA, NC, FL, MS, LA, TX, NM, AZ, MX and CA.

Global/Provincial Rank: G5 S2 Status: Red



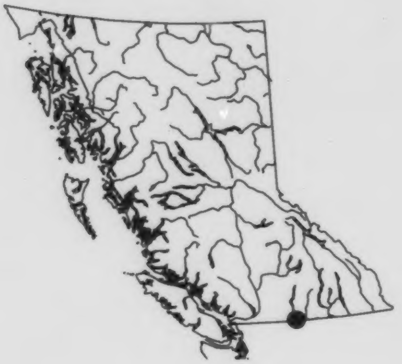


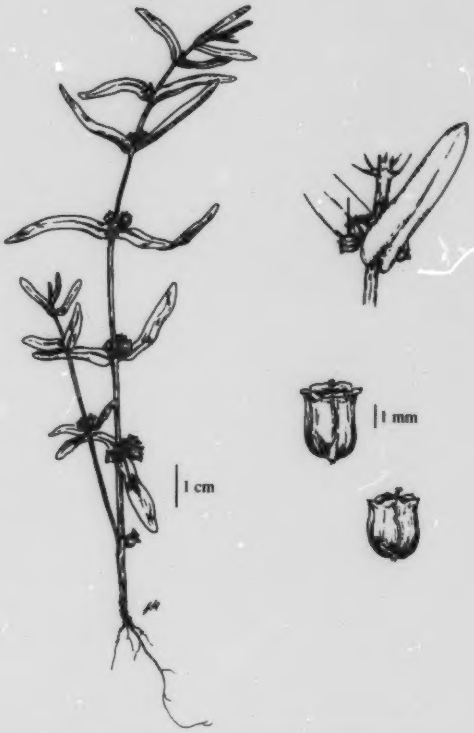
Ammannia robusta **Heer & Regel** *(A. coccinea auct. non* Rottb.)

scarlet ammannia

Habitat/Range: Wet, sandy lakeshores and ponds in the steppe zone (BGxh1); rare in SC BC, known only from the Osoyoos area; disjunct to ON and S to MN, IL, OH, FL, TX, NE, CA and MX.

Global/Provincial Rank: G5 S1 Status: Red





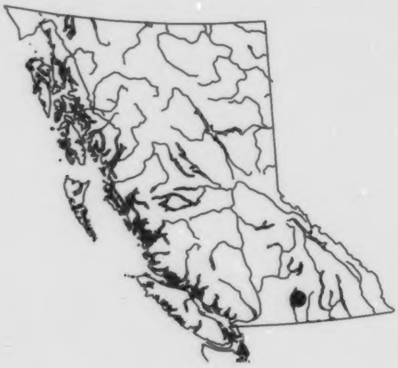
Amsinckia retrorsa **Suksd.**

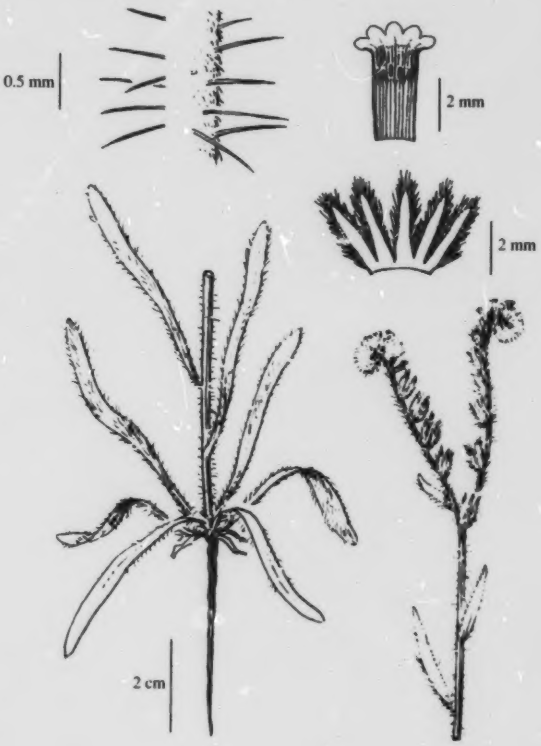
rigid fiddleneck

Habitat/Range: Dry roadsides, fields and disturbed areas in the steppe zone (BGxhl); rare in SC BC, known only from the Kelowna area; S to UT and CA.

Global/Provincial Rank: G5T5 S1 Status: Red

Notes: The first BC record for this species was found in 1993 (Douglas *et al.* 1994).



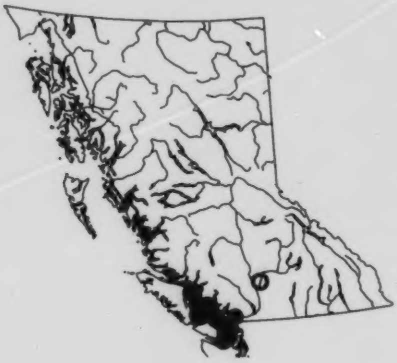


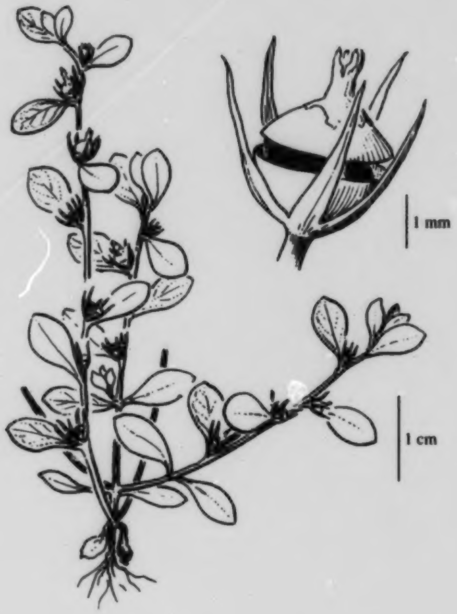
Anagallis minima **(L.) Krause** (*Centunculus minimus* L.)

chaffweed

Habitat/Range: Moist to wet river banks, salt marshes, vernal pools and pond margins in the lowland zone (CDFmm, CWHxm1, CWHxm2); rare on S Vancouver Island, the Gulf Islands and the lower Fraser Valley, possibly introduced; S to MN, IL, CA, TX, FL and MX; South America, Europe.

Global/Provincial Rank: G5 S2S3 Status: Blue



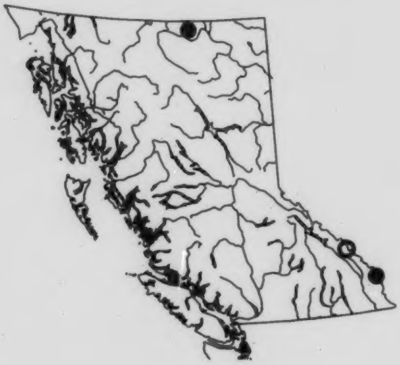


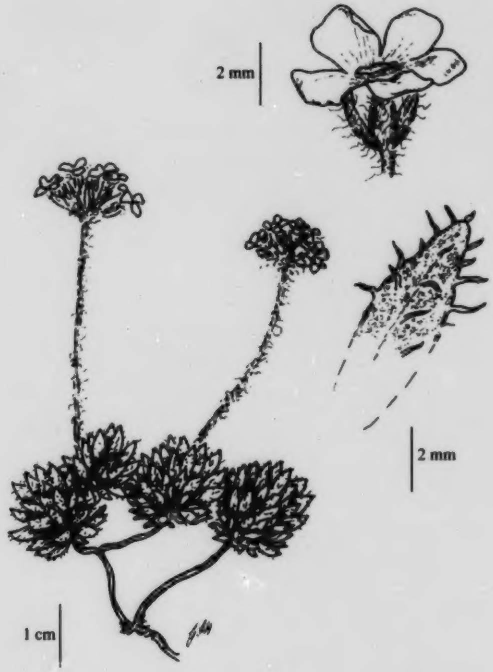
Androsace chamaejasme **Wulfen ssp.** ***lehmanniana*** **(Spreng.) Hult.** (*A. lehmanniana* Spreng., *A. chamaejasme* var. *arctica* Knuth)

sweet-flowered fairy-candelabra

Habitat/Range: Mesic to dry rocky slopes and meadows in the subalpine and alpine zones (AT, ESSFdk); rare in N and SE BC; circumpolar, N to AK and YT and S to MT; Eurasia.

Global/Provincial Rank: G5T5 S2S3 Status: Blue



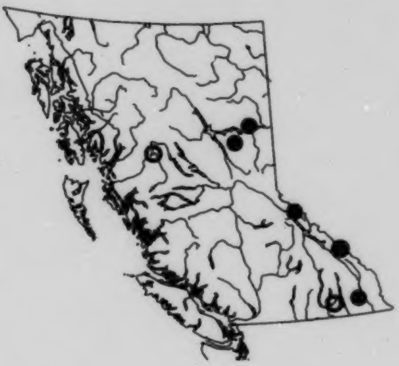


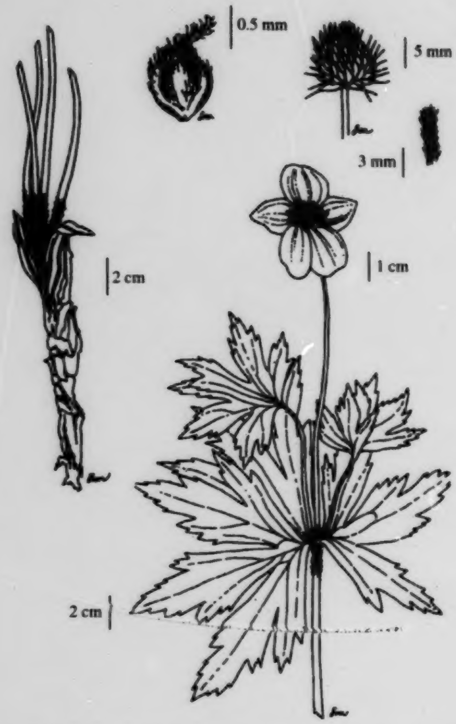
***Anemone canadensis* L.**

Canada anemone

Habitat/Range: Moist meadows, thickets and forest openings in the montane zone (BWBSmw1, ICHdw, ICHmc2, IDFdm2, MSdk, SBSdh2); rare in BC south of 57° N and E of the Coast-Cascade Mountains; N to NT, E to NF and S to MO, OH, NJ, SD and NM.

Global/Provincial Rank: G5 S2S3 Status: Blue





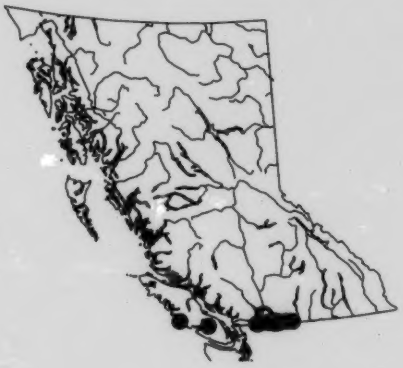
Anemone drummondii* S. Wats. var. *drummondii

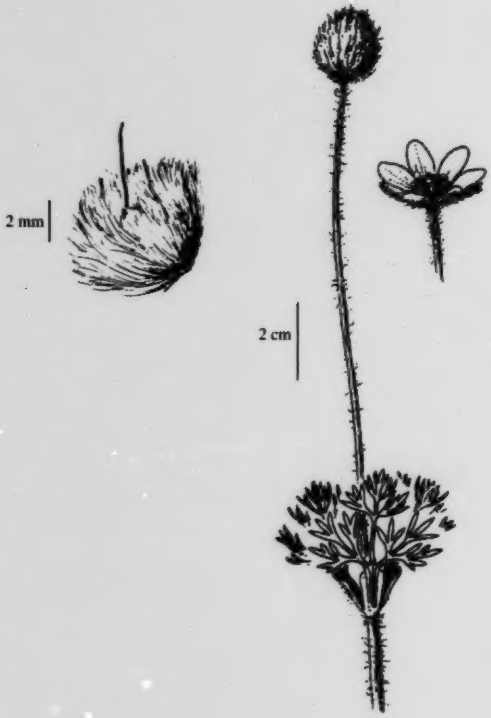
alpine anemone; Drummond's anemone

Habitat/Range: Mesic to dry meadows, rock outcrops and scree slopes in the montane to alpine zones (AT, CWHvh1, ESSFxc, MHmm1, MHmm2); rare in SW BC; S to CA, disjunct in C ID.

Global/Provincial Rank: G4T4 S2S3 Status: Blue

Notes: For colour illustration see Clark (1976).



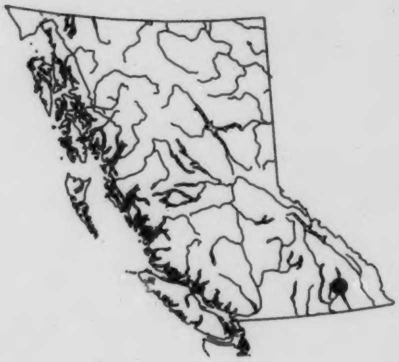


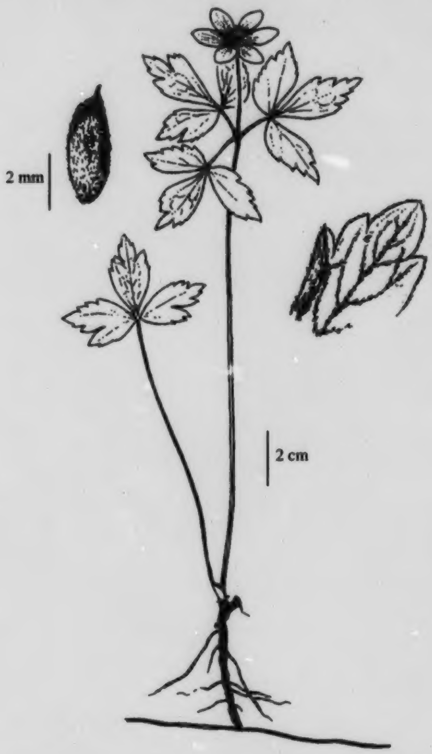
Anemone piperi **Britt.**

Piper's anemone

Habitat/Range: Moist forests in the montane zone (ESSFwc4); rare in SE BC, known only from the Kaslo area; S to ID, MT, UT and OR.

Global/Provincial Rank: G4 S1 Status: Red





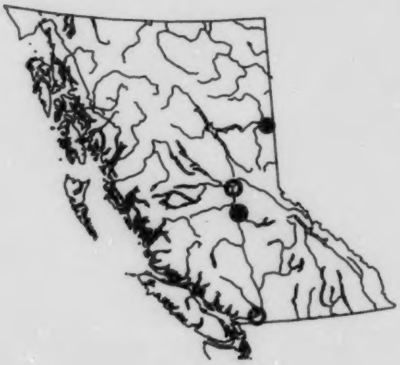
Anemone virginiana **L. var.** ***cylindroidea*** **Boivin**

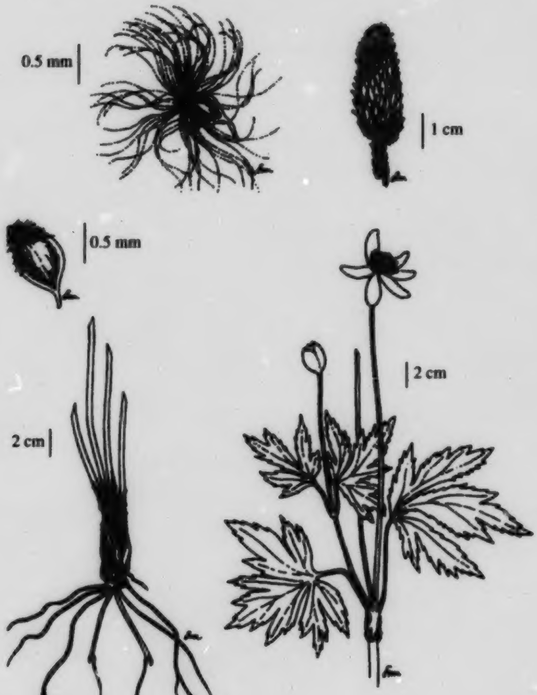
(*Anemone riparia auct. non* Fern.)

riverbank anemone

Habitat/Range: Moist to mesic gravel bars, streambanks and forests in the montane zone (BWBSmwl, SBSmh); rare, known from scattered locations from SW to NE BC; E to NF and S to ME, IL and MN.

Global/Provincial Rank: G5T? S1 Status: Red





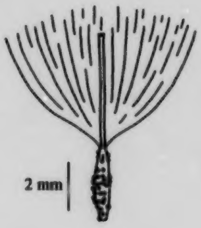
Antennaria flagellaris (A. Gray) A. Gray

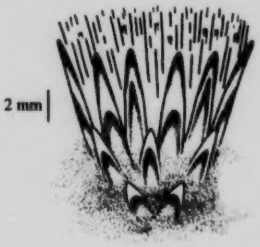
stoloniferous pussytoes

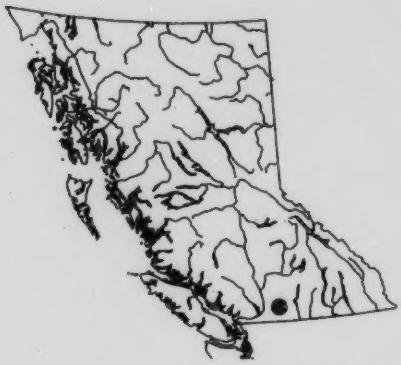
Habitat/Range: Dry grassy slopes in the lower montane zone (IDFxh1); rare in SC BC, known only from the Princeton area; S to ID, WY and CA.

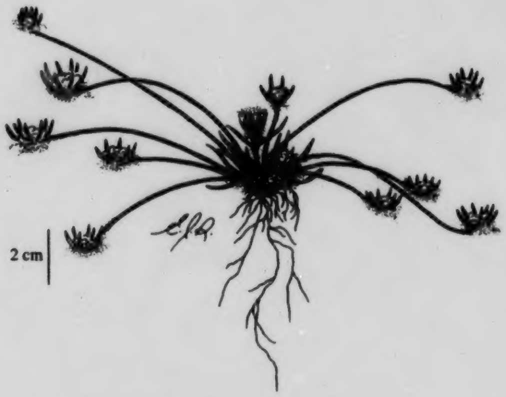
Global/Provincial Rank: G5? S1 Status: Red

Notes: This species was first collected in BC in 1996 by F. Lomer.









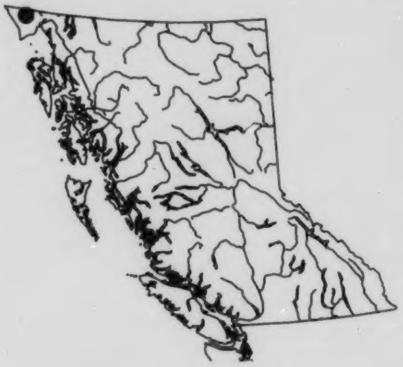
Aphragmus eschscholtzianus Andrz. *ex* DC.

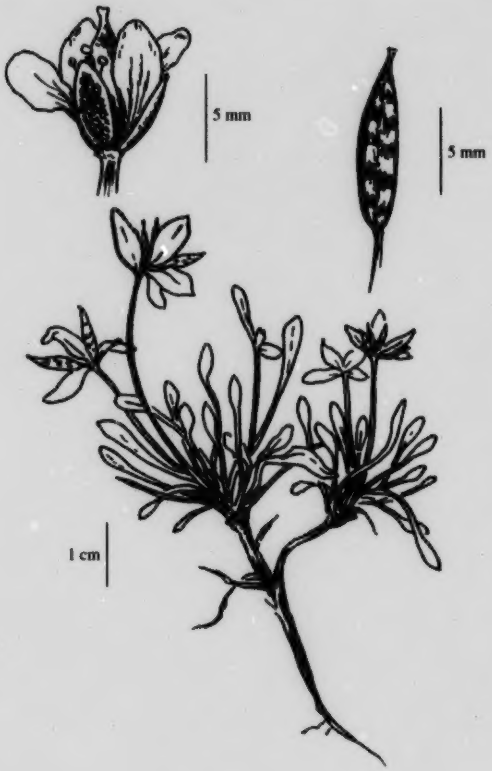
Eschscholtz's little nightmare

Habitat/Range: Moist to wet solifluction slopes, scree slopes and rocky ridges in the alpine zone (AT); rare in NW BC, known only from the Tatshenshini River; amphiberingian, N to AK and YT; NE Asia.

Global/Provincial Rank: G3 S2S3 Status: Blue

Notes: First collected in BC in 1992 (Douglas *et al.* 1994a).





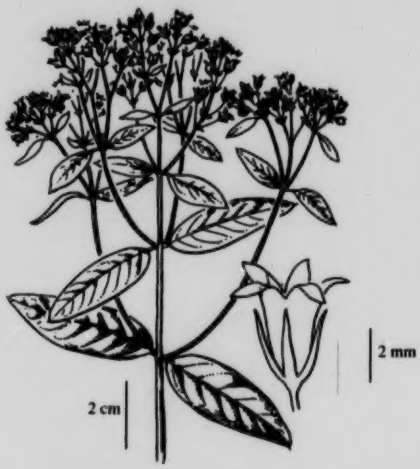
***Apocynum* x *floribundum* Greene** (*A. medium* Greene)

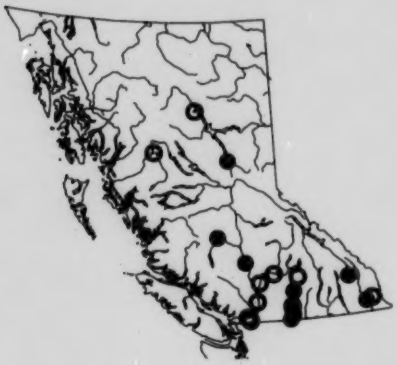
western dogbane

Habitat/Range: Mesic to dry roadsides, fields, shrublands and open forests in the lowland, steppe and montane zones (BGxh1, BGxh2, BGxh3, BWBSdk1, CWHdm, CWHxm1, ICHmc2, ICHmk1, IDFdm2, IDFww, IDFxh1, IDFxm, PPxh1, SBSwk1); rare in S BC east of the Coast-Cascades Mountains; E to NF and S to VA, TN, TX and NM.

Global/Provincial Rank: G4G5 S2S3 Status: Blue

Notes: Apparently, this taxon is of hybrid origin through *A. androsaemifolium* and *A. cannabinum* with many plants approaching either of the parents.





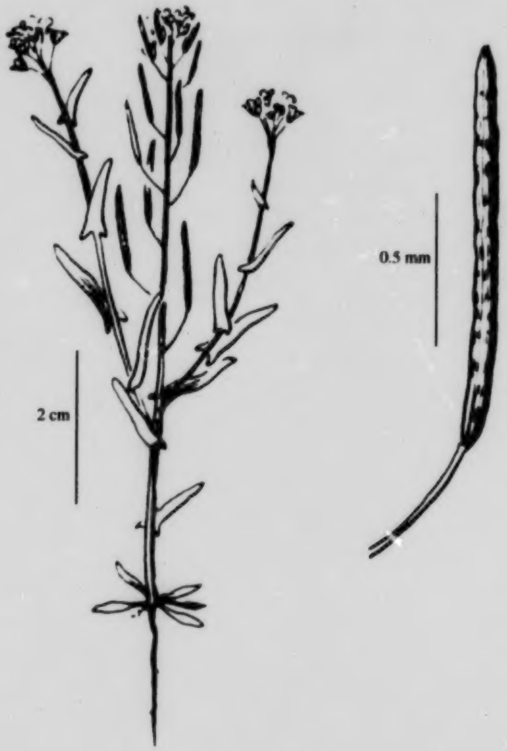
***Arabidopsis salsuginea* (Pall.) N. Busch** (*Thellungiella salsuginea* [Pall.] O.E. Schulz

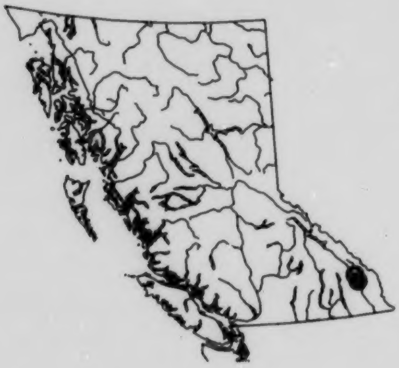
saltwater cress

Habitat/Range: Dry saline lakes and meadows in the montane zone (IDFdm2, IDFun); rare in SE BC; amphiberingian, N to YT and NT, E to MB and S to CO; Eurasia.

Global/Provincial Rank: G4G5 S1 Status: Red

Notes: This species was collected by F. Lomer in 1995 near Fairmont Hot Springs. Prior to this it was last collected at Columbia Lake in 1942.





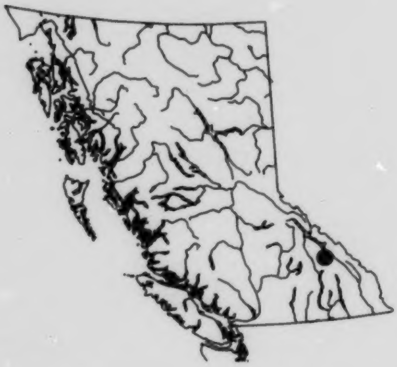
Arabis hirsuta **(L.) Scop. var.** ***hirsuta***

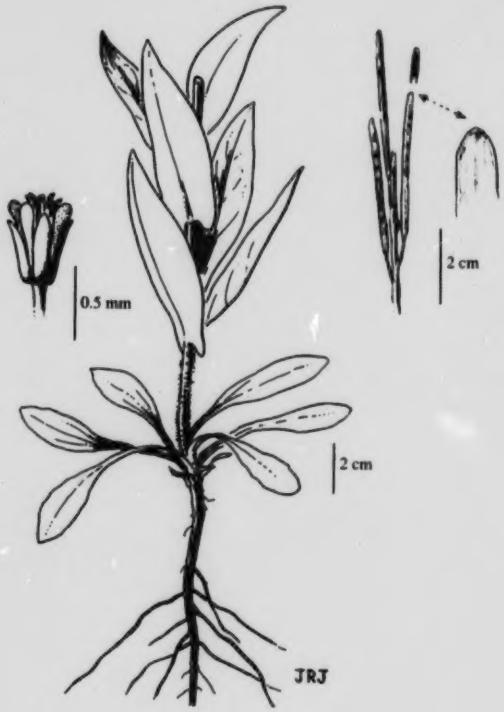
hairy rockcress

Habitat/Range: Rock outcrops and waste places in the montane zone (ICHvk1); rare in SE BC, known only from Glacier National Park; circumpolar, S to CO, NV and CA; Eurasia.

Global/Provincial Rank: G5T5 S1 Status: Red

Notes: This species, originally described from Germany, remained unknown in North America until Mulligan (1995) recently identified a number of specimens from the western U.S. and BC. It may be separated from other varieties of *A. hirsuta* in BC by its generally beakless siliques (Mulligan 1995).





Arabis holboellii **Hornem. var.** ***pinetorum*** **(Tidestrom) Rollins**

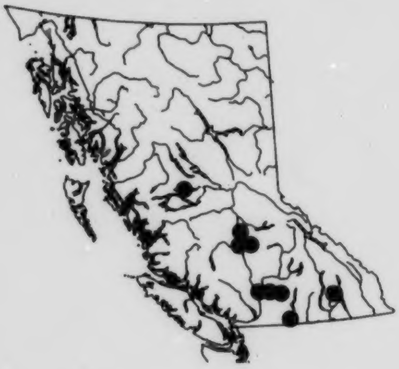
(*A. pinetorum* Tidestrom)

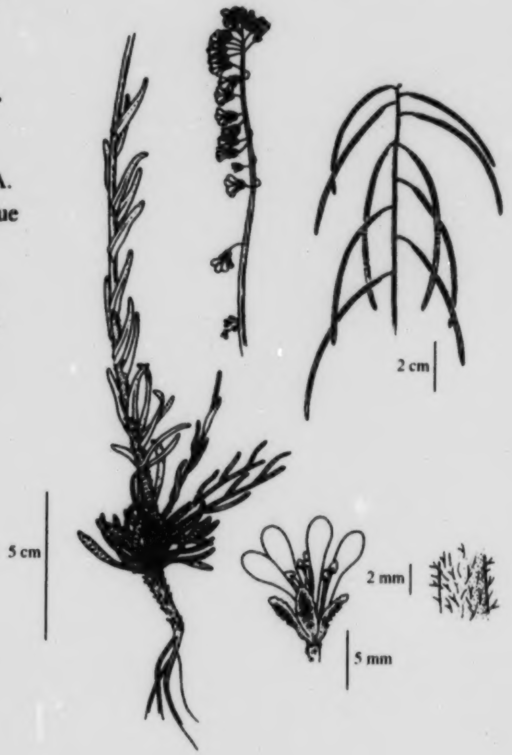
Holboell's rockcress

Habitat/Range: Mesic grasslands and meadows in the steppe, montane and subalpine zones (BGxh1, BGxw1, ESSFwc4, IDFxm, SBSdk); rare in C and SE BC; N to AK, YT and NT, E to MB and S to ND, WY, NV and CA.

Global/Provincial Rank: G5T5? S2S3 Status: Blue

Notes: The CDC now treats this taxon as a rare element after the recent verification of most BC material by Mulligan (1995). We prefer, however, to follow the treatments of Hitchcock (1964) and Rollins (1993) rather than recognize this taxon as a separate species (i.e., *A. pinetorum*) as Mulligan (1995) has done.





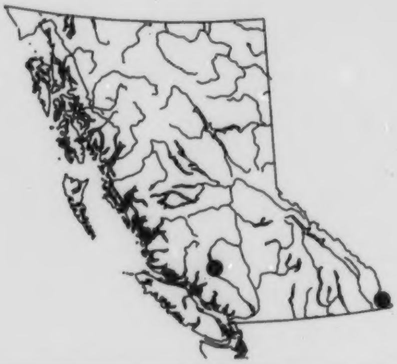
***Arabis lemmonii* S. Wats. var. *drepanoloba* (Greene) Roll.** (*A. drepanoloba* Greene)

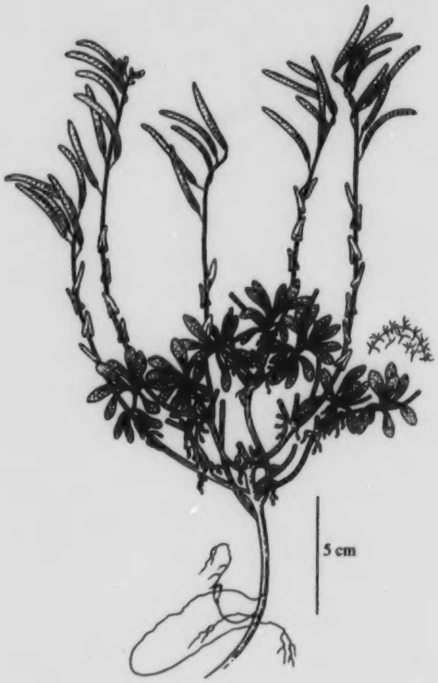
Lemmon's rockcress

Habitat/Range: Moist to mesic meadows in the alpine zone (AT, MSdk); rare in S BC east of the Coast-Cascade Mountains; N to SW YT, E to SW AB and S to CO.

Global/Provincial Rank: G5T4? S2S3 Status: Blue

Notes: We prefer to treat this taxon as a member of the variable *A. lemmonii* complex rather than as a new species (*A. drepanoloba*) as Mulligan (1995) has done. This variety may be separated from var. *lemmonii* by its wider siliques (> 2 mm) and taller stems (> 2 cm) Mulligan (1995). For colour illustration see Taylor and Douglas (1995).





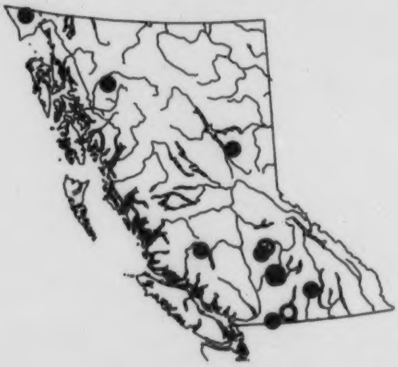
***Arabis lignifera* A. Nels.**

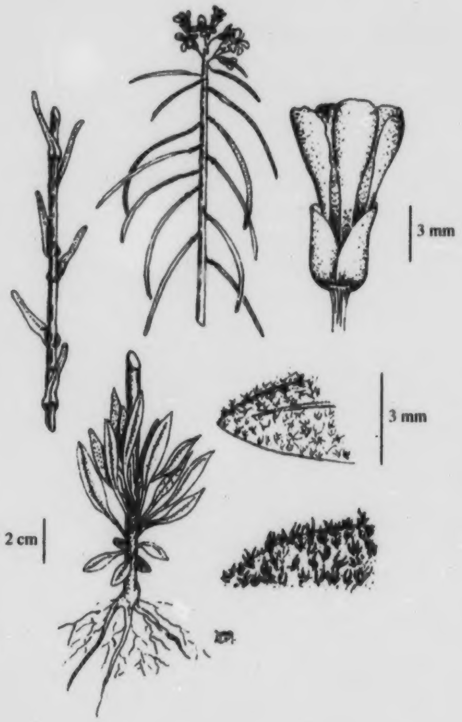
woody-branched rockcress

Habitat/Range: Dry to mesic gravelly slopes, shrublands and open forests in the steppe and montane zones (BGxh2, BGxw1, BWBSdk1, ESSFmw, ESSFxcp, ICHmk1, IDFdk1, IDFdk3, IDFdw, IDFxh2, SBSdw1, SBSun, SBSwk2); rare in SC, C and NW BC; S to ID, CO and NV.

Global/Provincial Rank: G5 S2S3 Status: Blue

Notes: This taxon, not previously reported for BC, was recently identified among BC *Arabis* material by Mulligan (1995). Specimens of *A. lignifera* may be difficult to separate from *A. sparsiflora*. *Arabis lignifera*, however, has 3- and 4-rayed trichomes rather than 2- and 3-forked trichomes on the undersurface of the basal leaves.





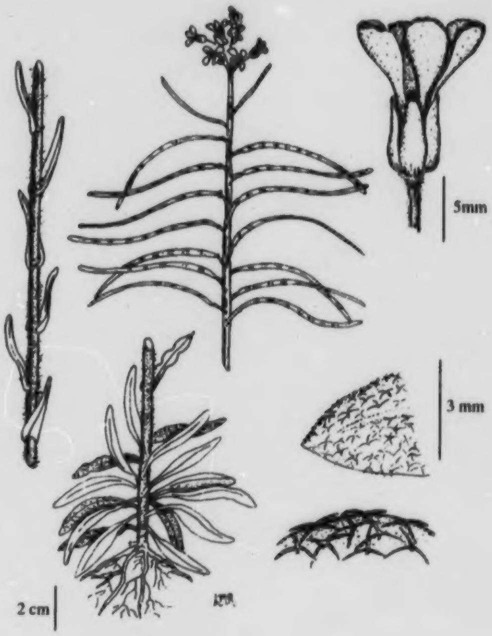
Arabis sparsiflora **Nutt.** (*A. columbiana* Macoun)

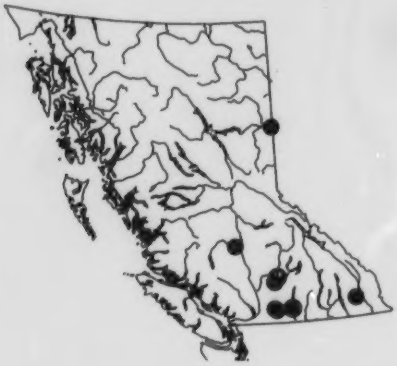
sickle-pod rockcress

Habitat/Range: Mesic to dry grasslands, gravelly river banks and disturbed areas in the steppe and lower montane zones (BGxh1, BGxh2, BGxw2, BWBSmw1, IDFxh1, MSxk); rare in SC and NE BC; S to UT, ID and CA.

Global/Provincial Rank: G5 S1 Status: Red

Notes: Recent annotation of BC *Arabis* material at CAN, DAO and UBC by G.A. Mulligan has revealed that this species is known from only three collections in BC.



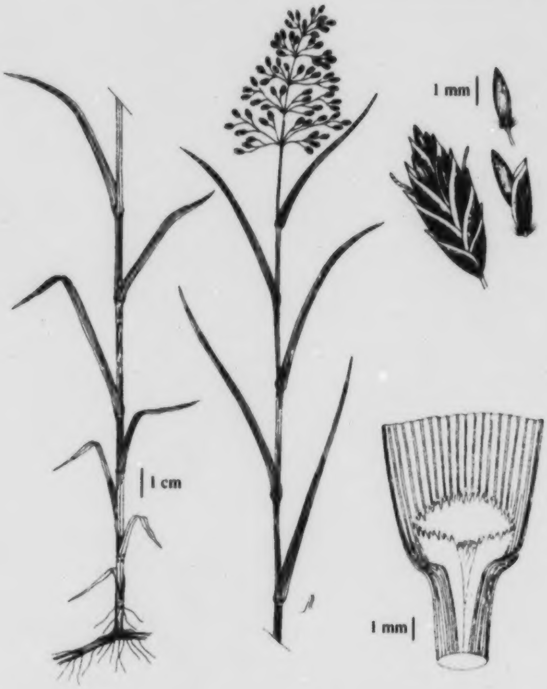


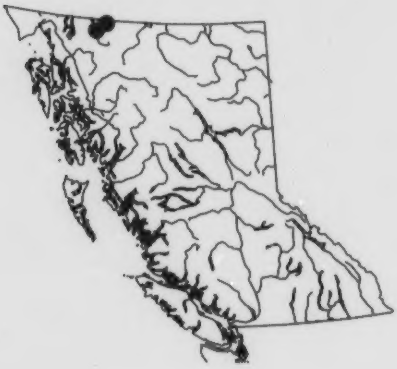
Arctophila fulva **(Trin.) Andersson** (*Colpodium fulvum* [Trin.] Griseb.)

pendantgrass

Habitat/Range: Lake and pond margins, wet meadows and streambanks in the montane to alpine zones; rare in NW BC (AT, BWBSdk1, SWBdk); circumpolar, N to AK, YT, and NT and E to PQ and Labr.; W Greenland, Eurasia.

Global/Provincial Rank: G5 S2S3 Status: Blue



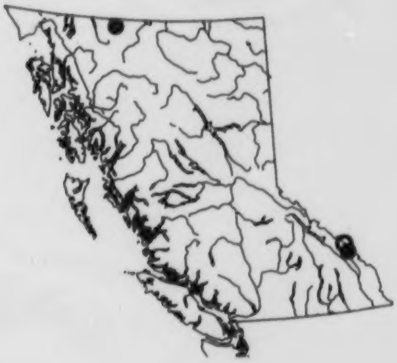


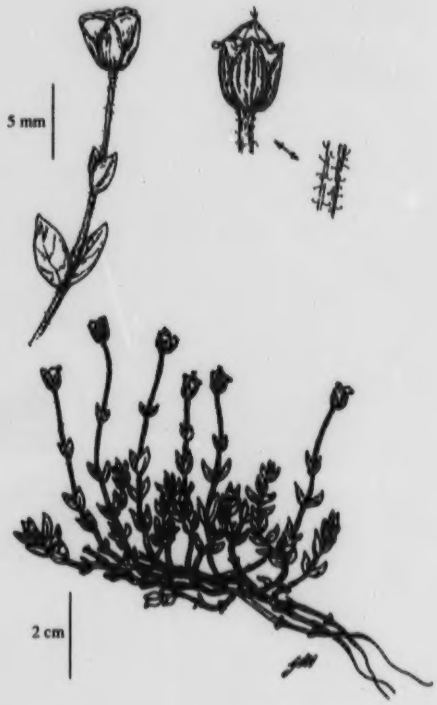
***Arenaria longipedunculata* Hult.** (*A. humifusa auct. non* Wahl.)

low sandwort

Habitat/Range: Moist gravelly sites in the subalpine zone (ESSFdk, SWBdk); rare in SE and N BC; N to AK, YT and NT and E to AB.

Global/Provincial Rank: G3Q S2S3 Status: Blue



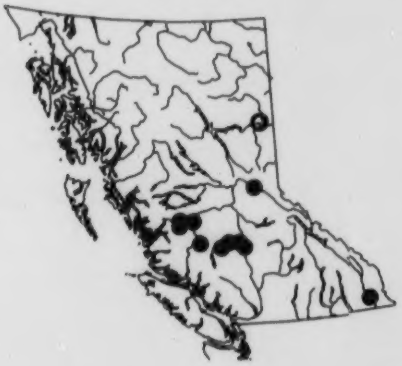


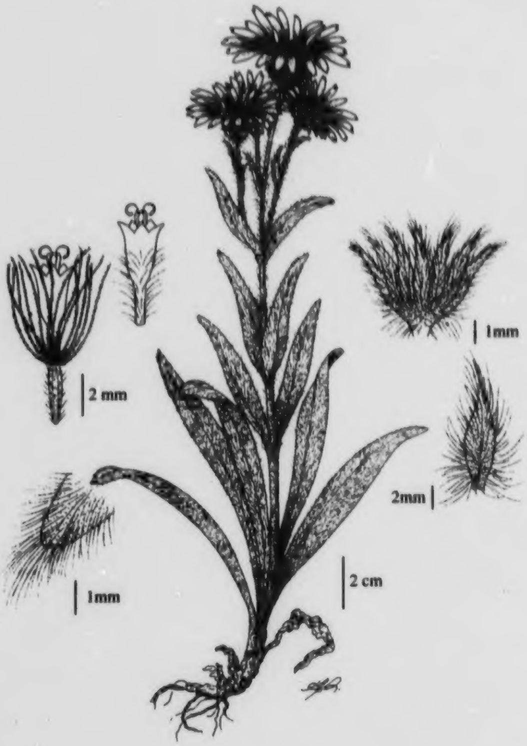
***Arnica chamissonis* Less. ssp. *incana* (A. Gray) Maguire** (*A. chamissonis* ssp. *foliosa* [Nutt.] Maguire var. *incana* [A. Gray] Hult.)

meadow arnica

Habitat/Range: Wet to mesic meadows and forest openings in the montane and subalpine zones (BWBSmw1, ICHvk2, IDFdm2, IDFxm, SBPSxc, SBSmc2); rare in NE, SC and SE BC; N to AK and YT, E to ON and S to NM, AZ and CA.

Global/Provincial Rank: G5T? S2S3 Status: Blue





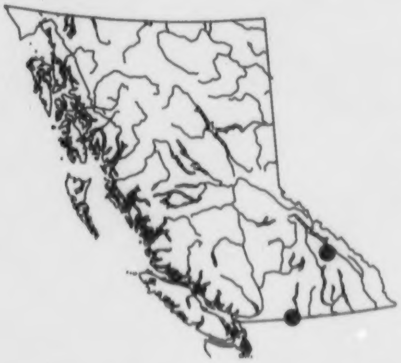
Arnica longifolia D.C. Eaton

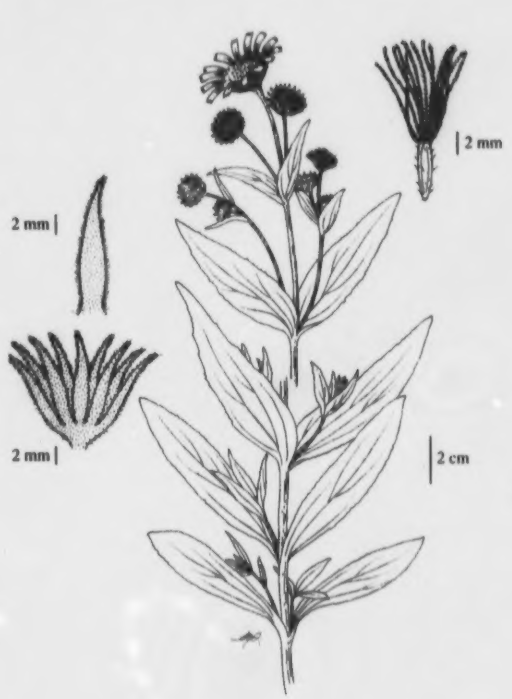
seep-spring arnica

Habitat/Range: Moist to wet meadows and seepage slopes in the montane to alpine zones (AT, ICHvk1); rare in SC and SE BC, known only from Snowy Mountain and Glacier National Park; E to SW AB and S to CO and CA.

Global/Provincial Rank: G5 S2S3 Status: Blue

Notes: Although this species was known from a number of collections along the BC border in AB, WA and MT (Douglas 1982) it was not collected in BC until 1994 by Malcolm Martin and George W. Douglas at Snowy Mountain.



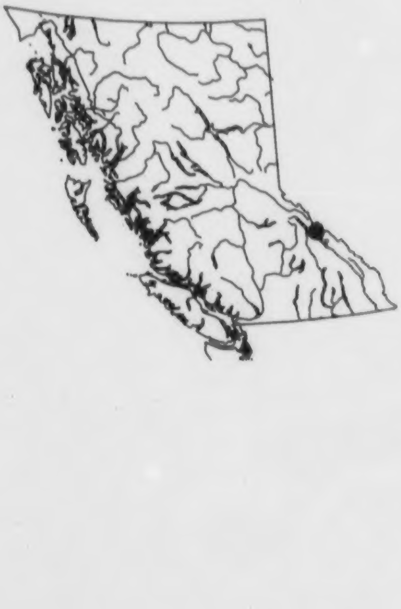


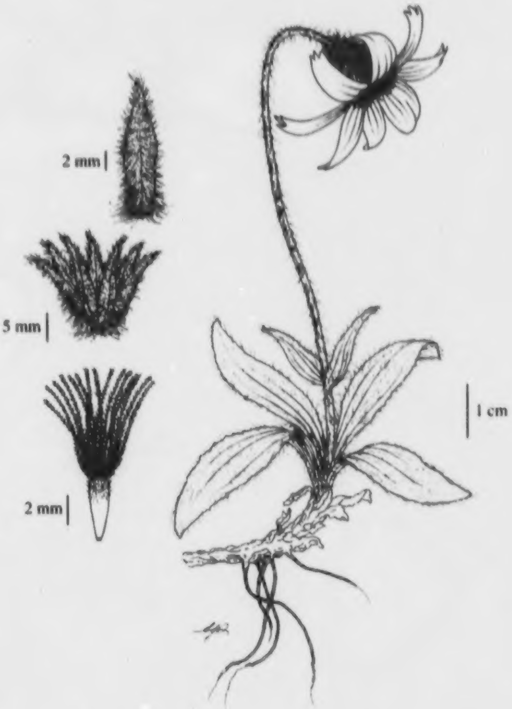
Arnica louiseana Farr

Lake Louise arnica

Habitat/Range: Mesic to dry meadows and rocky slopes in the alpine zone (AT); rare in SE BC, known only from Kootenay National Park; E to SW AB.

Global/Provincial Rank: G3 S2S3 Status: Blue



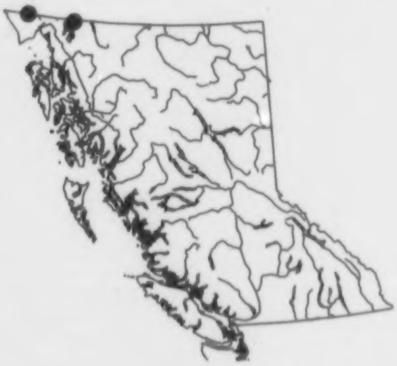


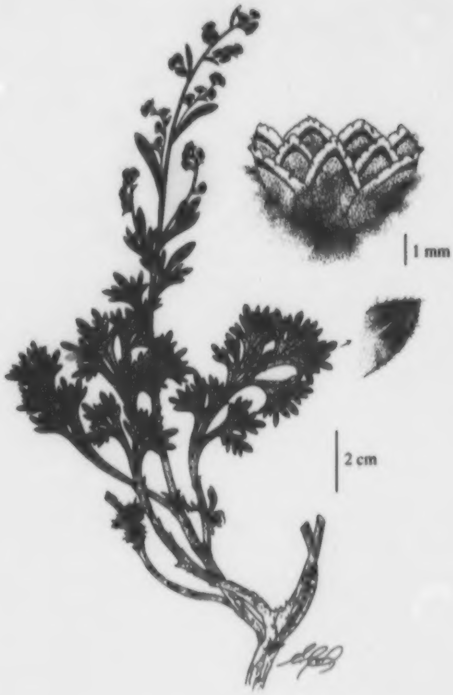
***Artemisia alaskana* Rydb.**

Alaskan sagebrush

Habitat/Range: Mesic to dry sandy or gravelly river terraces and rocky slopes in the montane zone (BWBSdk1); rare in extreme NW BC, known only from the Haines and Atlin Roads; N to AK and YT.

Global/Provincial Rank: G4 S2S3 Status: Blue



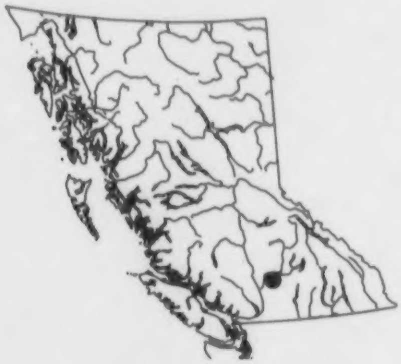


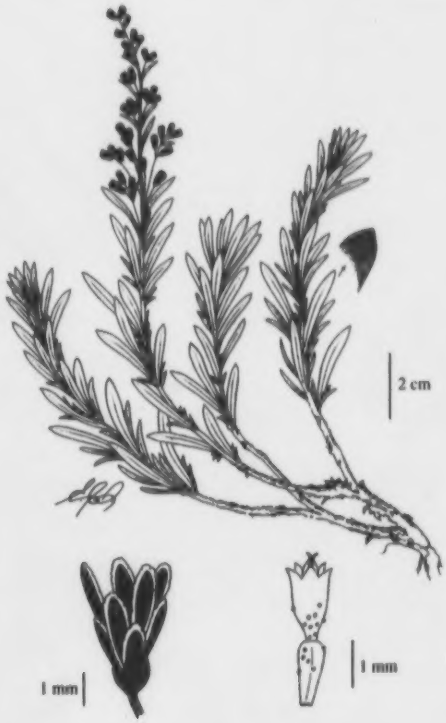
Artemisia cana* Pursh ssp. *cana

silvery sagebrush

Habitat/Range: Dry shrublands in the steppe zone (IDFdk1); rare in SC BC, known only from the Merritt area; E to SK and S to KS, UT and NM.

Global/Provincial Rank: G5T4? S1 Status: Red



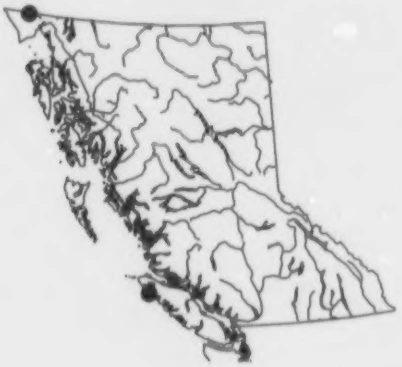


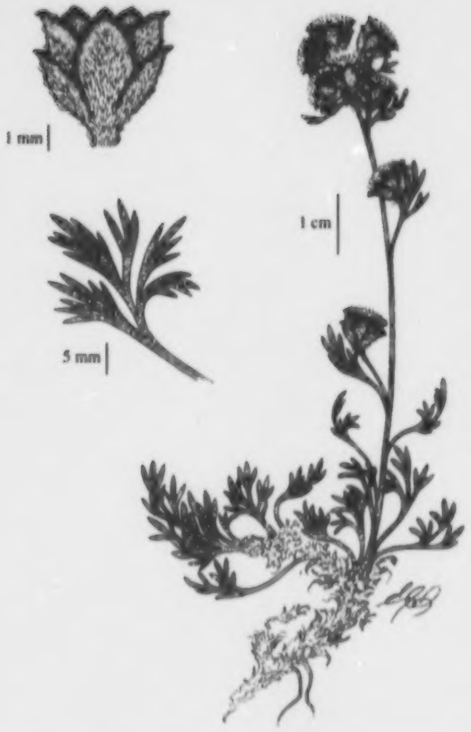
***Artemisia furcata* Bieb. var. *heterophylla* (Bess.) Hult.**
(*A. heterophylla* Bess., *A. trifurcata* Steph.)

three-forked mugwort

Habitat/Range: Dry slopes in the alpine zone (AT); rare in WC and NW BC, known only from the Brooks Peninsula (NW Vancouver Island) and Haines Road area (N BC); circumpolar, N to AK, YT and NT; Eurasia.

Global/Provincial Rank: G4T? S2S3 Status: Blue



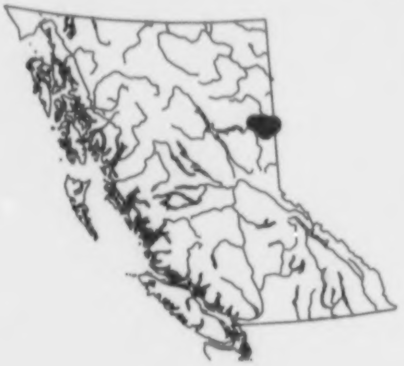


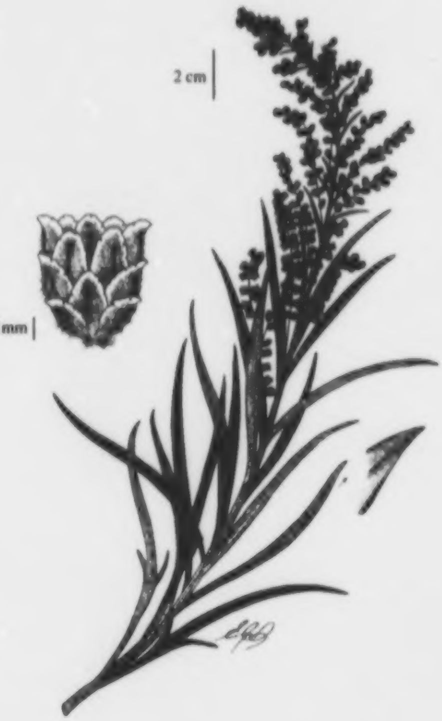
***Artemisia longifolia* Nutt.**

long-leaved mugwort

Habitat/Range: Mesic streambanks and terraces in the montane zone (BWBSmw1); rare in NE BC, known only from the Peace River drainage near the AB border; E to SK and S to SD and CO.

Global/Provincial Rank: G5 S2 Status: Red



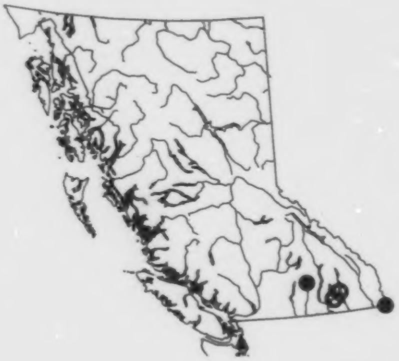


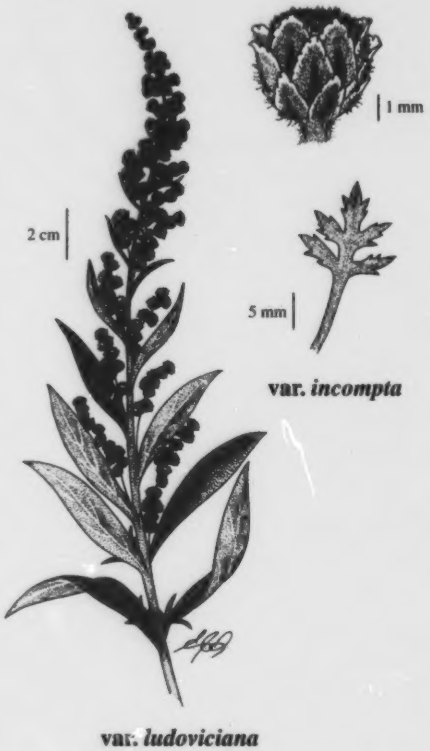
Artemisia ludoviciana **Nutt. var.** ***incompta*** **(Nutt.) Cronq.**

western mugwort

Habitat/Range: Mesic to dry slopes, gravelly river terraces and open forests in the montane and subalpine zones (ICHdw, IDFmw1, MSdk); rare in SE BC, known recently only from Cherryville and Sage Creek; E to ON and S to IL, TX, NM, AZ, CA and NW MX.

Global/Provincial Rank: G5T? S2S3 Status: Blue



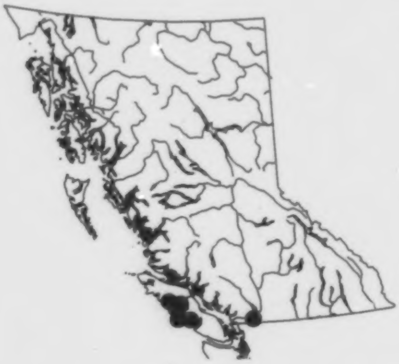


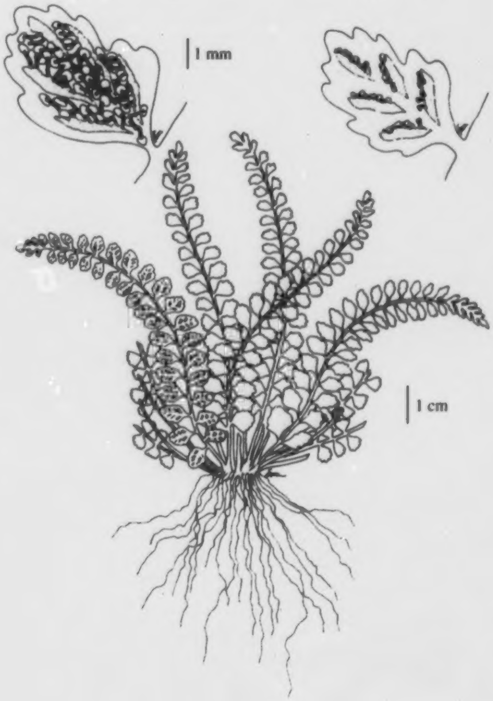
Asplenium adulterinum **Milde**

corrupt spleenwort

Habitat/Range: Dry to mesic talus slopes and walls of limestone fissures in the montane and subalpine zones (MHmm1, MHmm2); rare on Vancouver Island and in lower Fraser Valley; not known elsewhere in NA; Europe, SW Asia.

Global/Provincial Rank: G3? S2S3 Status: Blue



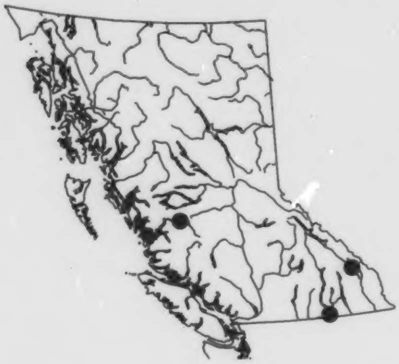


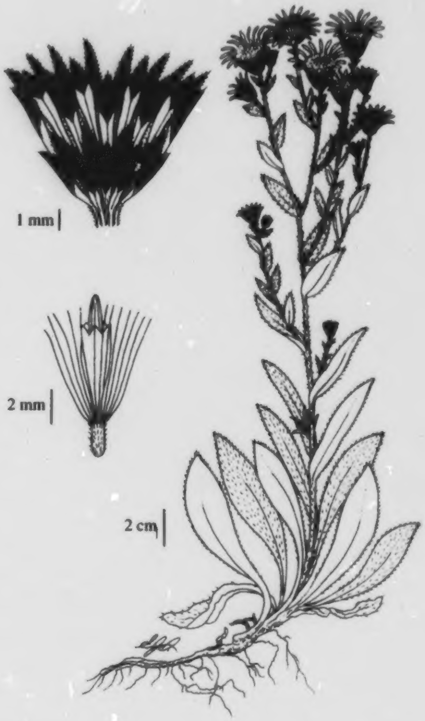
Aster ascendens **Lindl.** (*A. chilensis* Nees ssp. *ascendens* [Lindl.] Cronq.)

long-leaved aster

Dry slopes and forest openings in the montane zones (ICHdw, IDFdm2, SBSmc2); rare in SC and SE BC; E to SK and S to NM, AZ and CA.

Global/Provincial Rank: G5 S2S3 Status: Blue





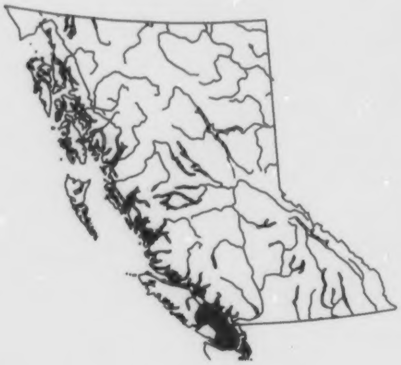
Aster curtus **Cronq.** (*Sericocarpus rigidus* Lindl.)

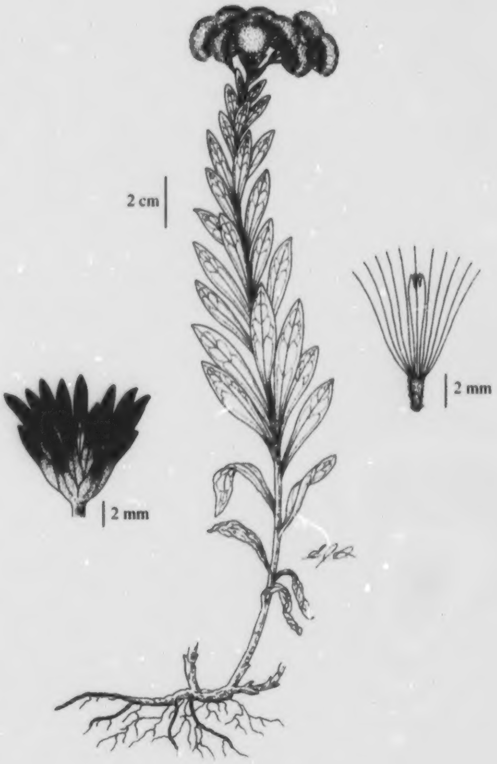
white-top aster

Habitat/Range: Dry meadows, woodlands and rocky slopes in the lowland zone (CDFmm, CWHxm1, CWHxm2); rare on SW Vancouver Island, and adjacent Hornby Island and Trial Island; S to OR.

Global/Provincial Rank: G3 S2 Status: Red

For colour illustration see Clark (1976).





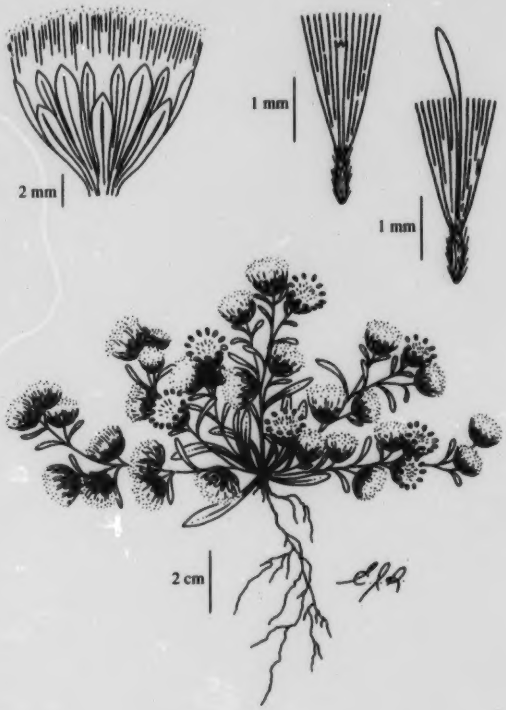
Aster frondosus **(Nutt.) T. & G.**

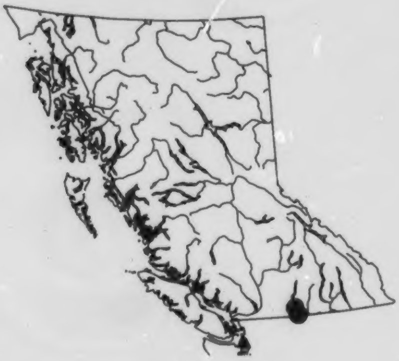
short-rayed aster; alkali aster

Habitat/Range: Moist lakeshores in the steppe zone (BGxh1); rare in extreme SC BC; S to UT, AZ, NM and CA.

Global/Provincial Rank: G4 S1 Status: Red

Notes: This species was recently collected after remaining uncollected for almost 50 years (Douglas *et al.* 1998b). An additional collection from dredgings near the Fraser River in Surrey is not in its natural habitat.



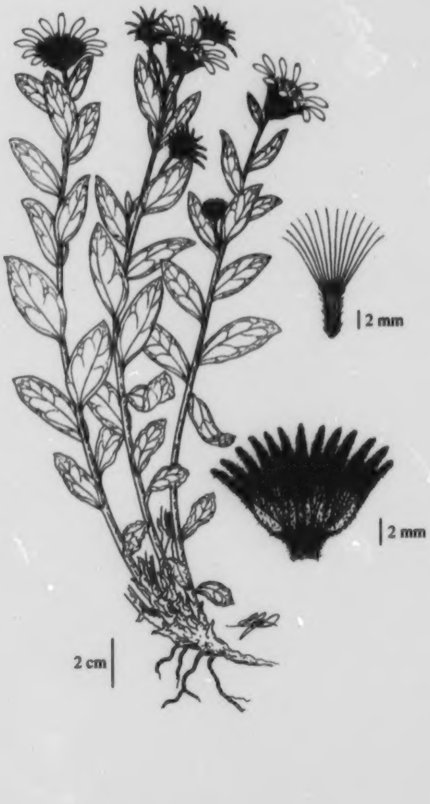


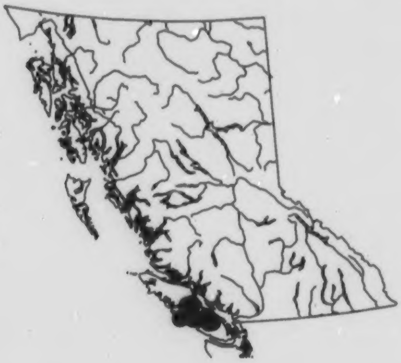
Aster paucicapitatus **(B.L. Robins.) B.L. Robins.**

Olympic mountain aster

Habitat/Range: Mesic meadows and rock outcrops in the montane to subalpine zones (AT, CWHvh1, CWHvm1, MHmm1); rare on SC Vancouver Island; endemic to SW BC and NW WA (Olympic Mountains).

Global/Provincial Rank: G3 S2S3 Status: Blue



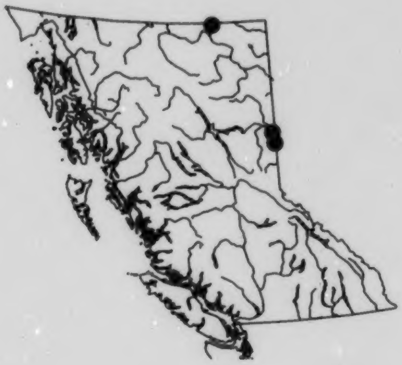


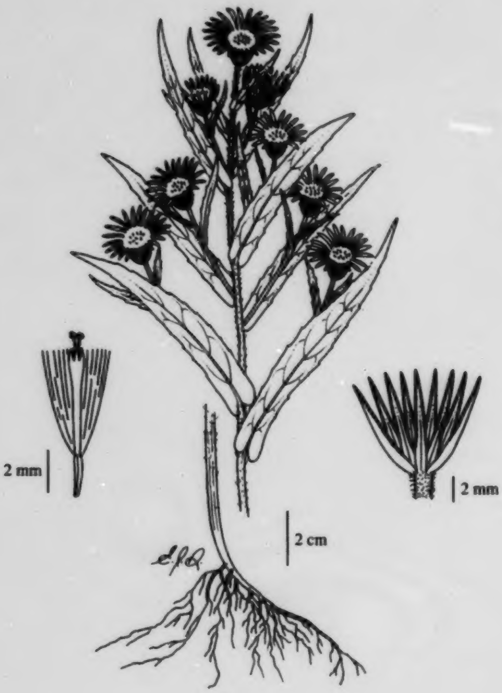
Aster puniceus L. var. *puniceus*

purple-stemmed aster

Habitat/Range: Moist streambanks and openings in the montane zone (BWBSmw2); rare in NE BC; E to NF and S to AL, GA, FL, KS, IL, and SD.

Global/Provincial Rank: G5T5 S1 Status: Red





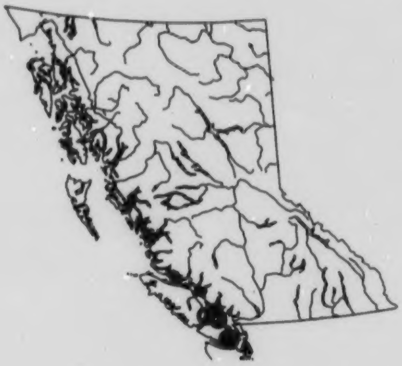
Aster radulinus A. Gray

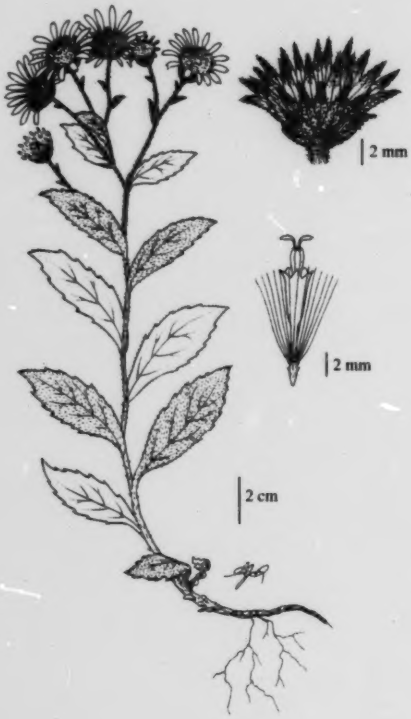
rough-leaved aster

Habitat/Range: Dry rock outcrops and open forests in the lowland zone (CDFmm, CWHxm1); rare in SW BC, known only from SE Vancouver Island; S to CA.

Global/Provincial Rank: G4G5 S1 Status: Red

Notes: This species has not been collected since 1975.



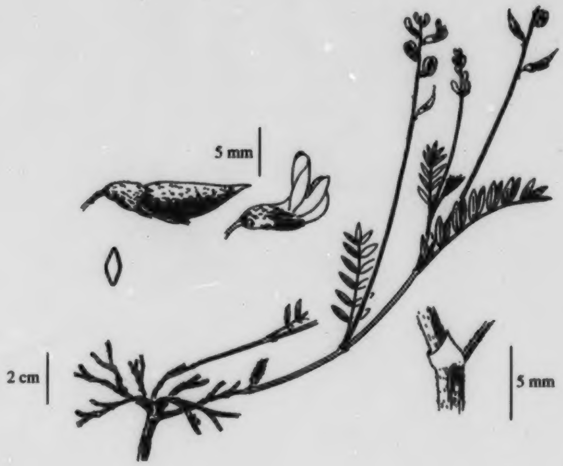


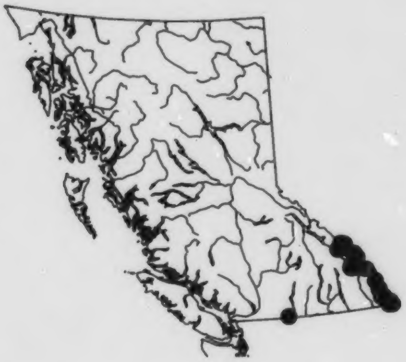
Astragalus bourgovii A. Gray

Bourgeau's milk-vetch

Habitat/Range: Mesic gravel bars, streambanks and rocky slopes, typically on limestone, from the montane to the alpine zones (AT, ESSFdk); rare in SC and SE BC; E to SW AB and S to ID and MT.

Global/Provincial Rank: G5 S3 Status: Blue





Astragalus crassicarpus Nutt.

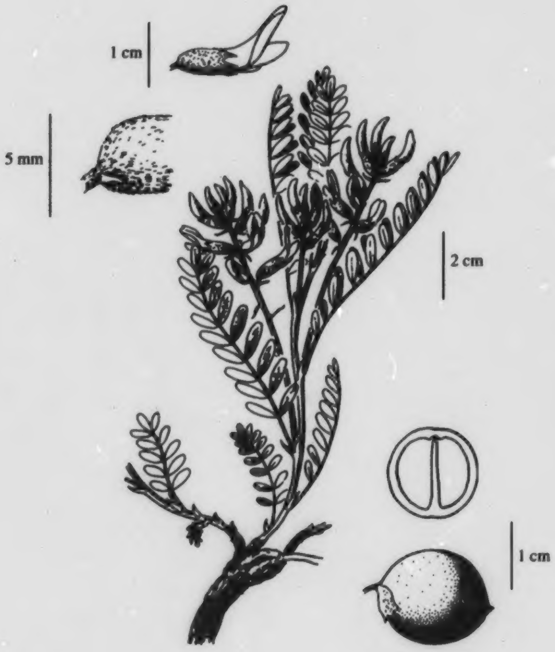
ground plum; buffalo plum

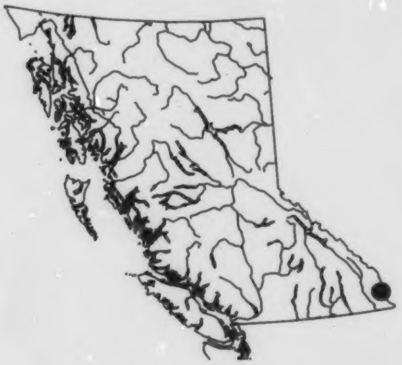
Habitat/Range:

Dry grassy openings in the montane zone (MSdk); rare in SE BC, known recently only from Alexander Creek, Crowsnest Pass area; E to SK and S to MO, TN, TX, MT, AZ and NM.

Global/Provincial Rank: G5 S2S3 Status: Blue

Notes: For colour illustration see Taylor (1992).





Astragalus drummondii Dougl. *ex* Hook.

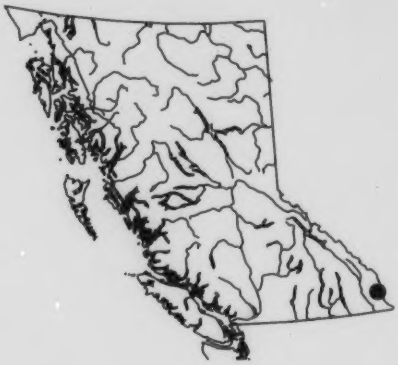
Drummond's milk-vetch

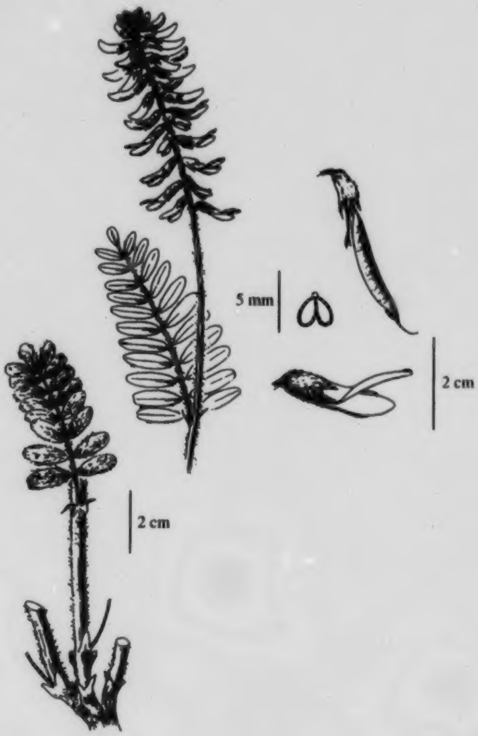
Habitat/Range:

Dry, open, grassy slopes in the montane zone (MSdk); rare in SE BC, known only from Natal Ridge (Sparwood area); E to SK and S to KS, UT and NM.

Global/Provincial Rank: G5 S2S3 Status: Blue

Notes: Although listed by Taylor and MacBryde (1977), no material was discovered in herbaria until recently (Douglas *et al.* 1994).





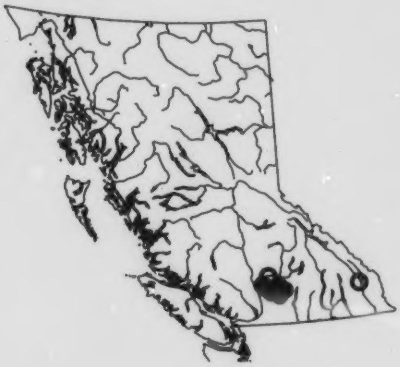
Astragalus filipes Torr.

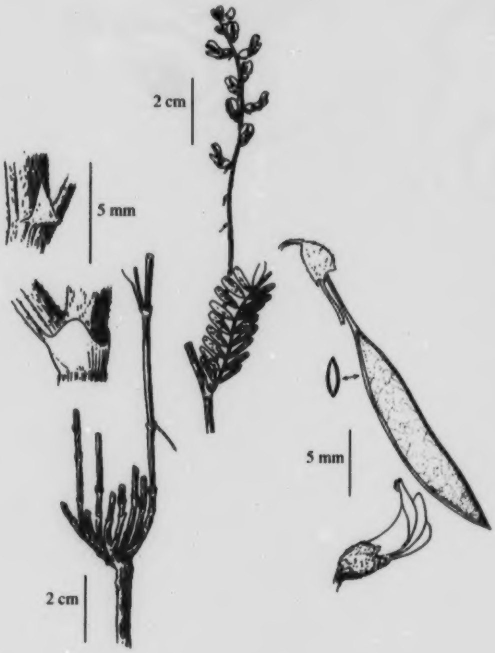
threadstalk milk-vetch

Habitat/Range: Dry sites in the steppe and lower montane zones (BGxh2, BGxw1, IDFdk1, IDFdm2, PPxh2); rare in SC and SE BC; S to WA, NC OR and MX.

Global/Provincial Rank: G5 S3 Status: Blue

Notes: For colour illustration see Taylor (1992).





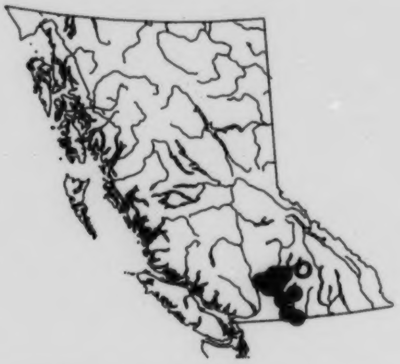
Astragalus lentiginosus Dougl. *ex* Hook. *sensu lato*

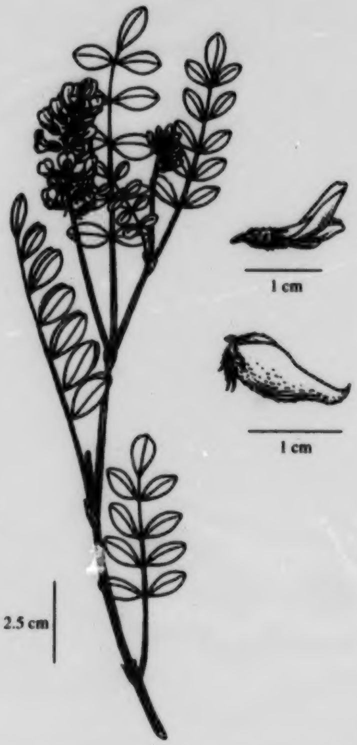
freckled milk-vetch

Habitat/Range: Dry grasslands and shrublands in the steppe and montane zones (BGxh1, BGxh2, BGxw1, ESSFwc2, IDFxh2, MSxk, PPxh1, PPxh2); rare in SC BC; S to ID, WA and OR.

Global/Provincial Rank: G5 S2 Status: Red

Notes: This species complex, when treated by Barneby (1964), consists of 34 variants. Obviously, this is not a practical taxonomy. Examination of BC collections of this species indicates that there is likely more variation than previously thought, thus it is probably best to treat this entity in the broad sense.



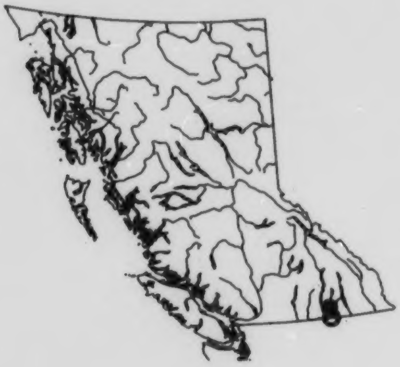


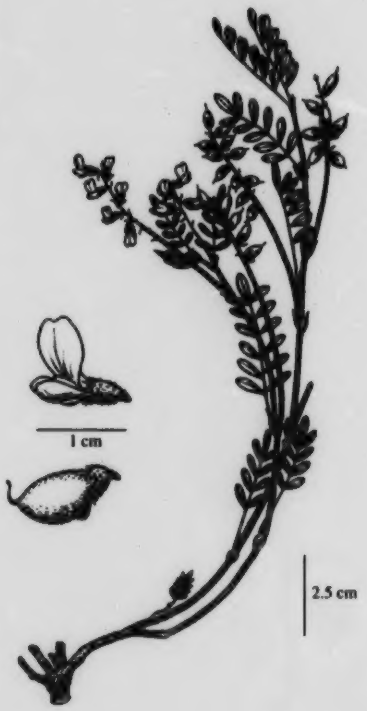
Astragalus microcystis A. Gray

least bladdery milk-vetch

Habitat/Range: Dry grassy slopes to open forests in the steppe and lower montane zones (ICHdw); rare in SE BC, known recently only from Pass Creek; S to ID, MT and WA.

Global/Provincial Rank: G5 S1 Status: Red



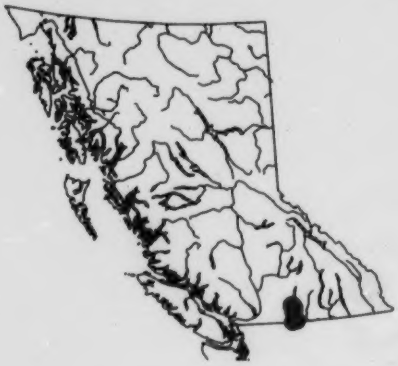


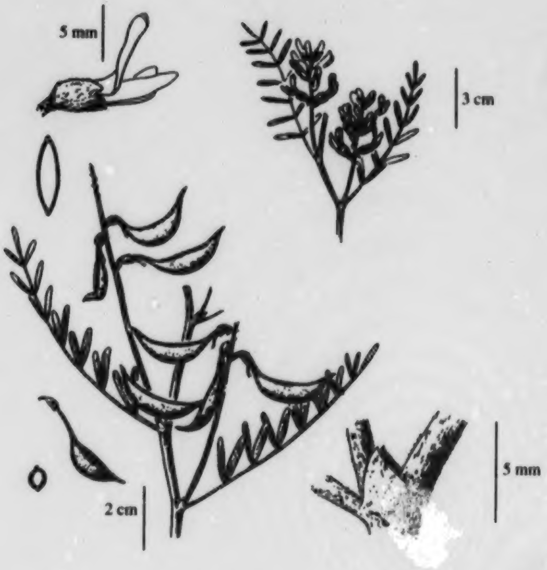
Astragalus sclerocarpus A. Gray

The Dalles milk-vetch

Habitat/Range: Dry sandy banks and terraces in the steppe and lower montane zones (BGxh1); rare in SC BC; S to WA and NE OR.

Global/Provincial Rank: G5 S2 Status: Red





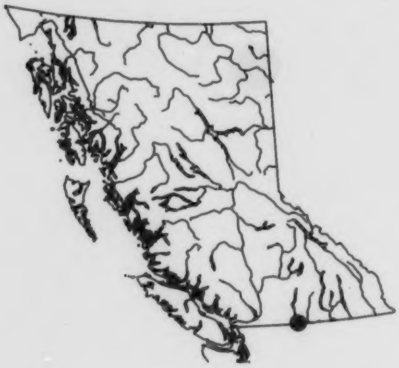
Astragalus spaldingii A. Gray var. *spaldingii*

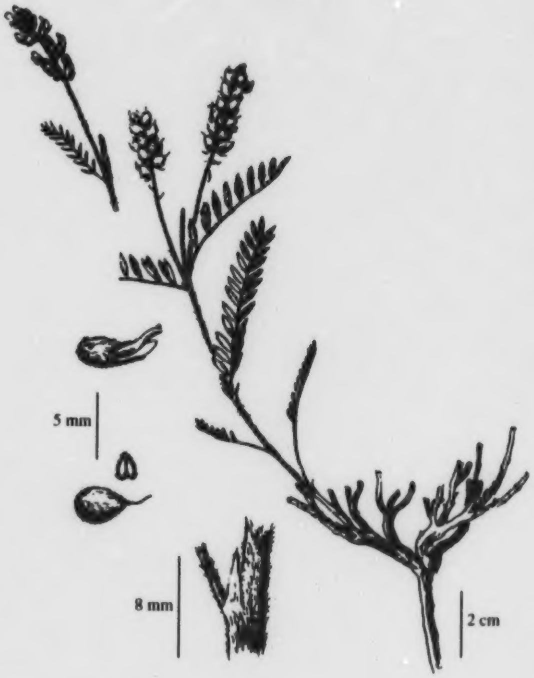
Spalding's milk-vetch

Habitat/Range: Dry shrublands in the steppe zone (BGxh1); rare in SC BC, known only from Osoyoos; S to ID and NE OR.

Global/Provincial Rank: G3?T3? S1 Status: Red

Notes: This species was first collected in BC in 1990 (Douglas *et al.* 1994).





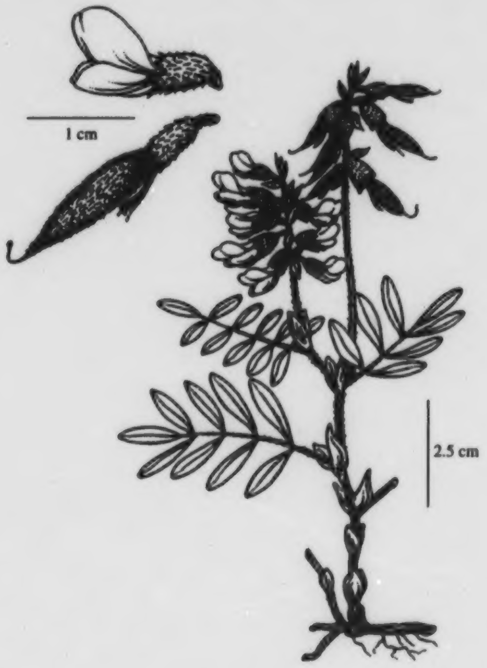
Astragalus umbellatus Bunge

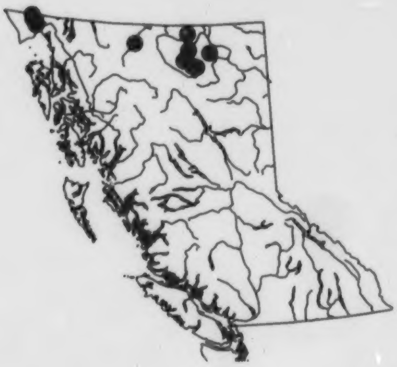
tundra milk-vetch

Habitat/Range: Moist to mesic meadows, heath and tundra from the montane to alpine zones (AT, BWBSdk2, BWBSmw2, SWBdk, SWBmk); rare in N BC; amphiberingian, N to AK, YT and NT; E Asia.

Global/Provincial Rank: G4 S2S3 Status: Blue

Notes: For colour illustration see White and Williams (1974).



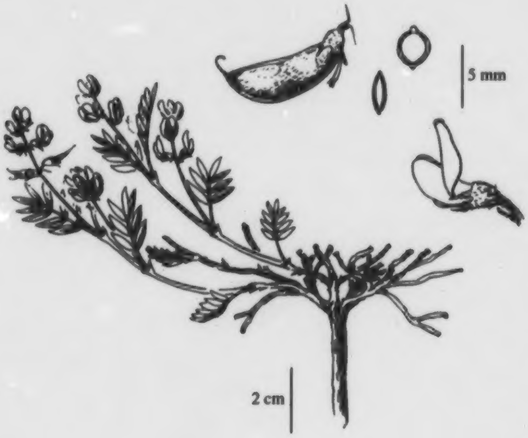


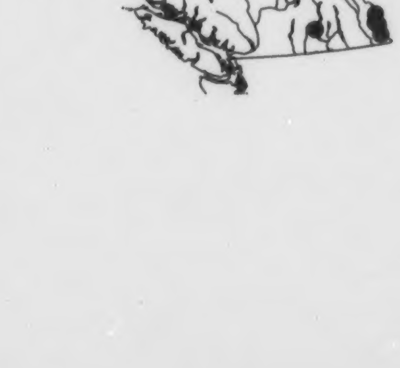
Astragalus vexilliflexus Sheldon var. _vexilliflexus_

bent-flowered milk-vetch

Habitat/Range: Mesic to dry scree slopes, gravelly banks and grassy knolls in the montane, subalpine and alpine zones (AT, ESSFdk, ESSFdkp, ESSFmv2, ICHmw2); rare in E BC; E to SK, S to WY and C ID.

Global/Provincial Rank: G4T? S2S3 Status: Blue





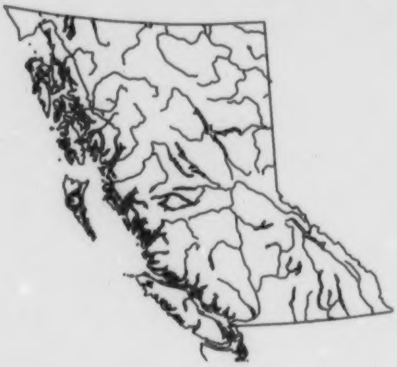
Atriplex alaskensis **S. Wats.** (*A. patula* ssp. *alaskensis* [S. Wats.] Hall & Clem., *A. patula* var. *alaskensis* [S. Wats.] Welsh)

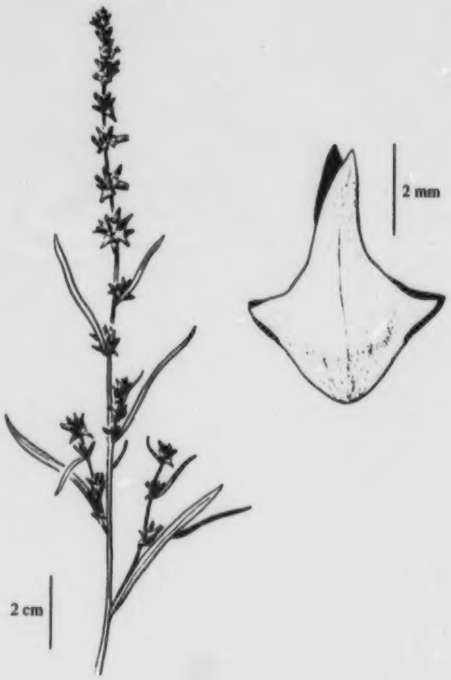
Alaskan orache

Habitat/Range: Moist to mesic shorelines in the lowland zone (CWHvh2); rare, known only from the Queen Charlotte Islands, N to AK.

Global/Provincial Rank: G3G4Q SH Status: Red

Notes: This species was last collected in 1898.



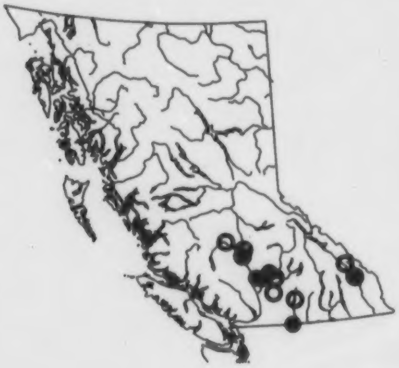


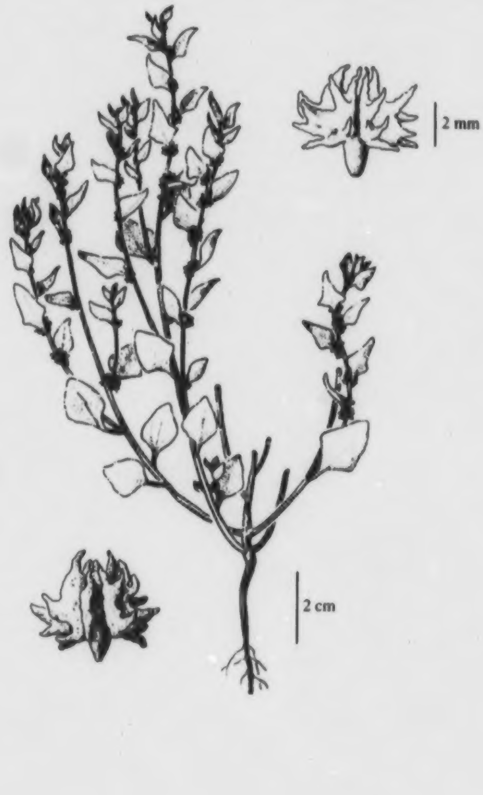
Atriplex argentea **Nutt. ssp.** ***argentea***

silvery orache; silver saltbush

Habitat/Range: Saline disturbed areas and fields in the steppe and montane zones (BGxh1, BGxh2, BGxh3, BGxw1, IDFdm2, IDFxh2b, IDFxm, PPxh1); rare in SC and SE BC; E to W MB and S to NM and N CA.

Global/Provincial Rank: G5T5 S1 Status: Red



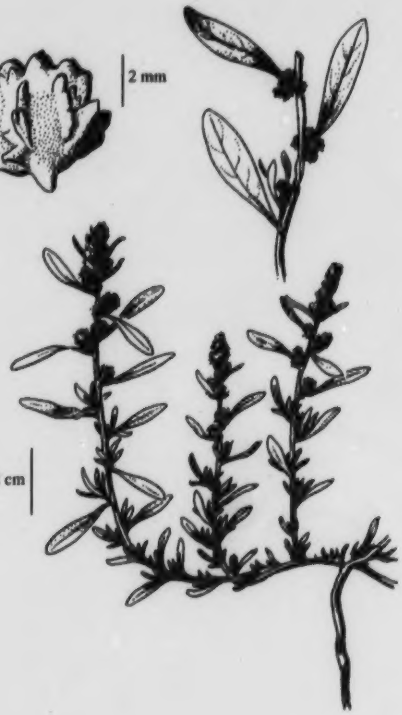


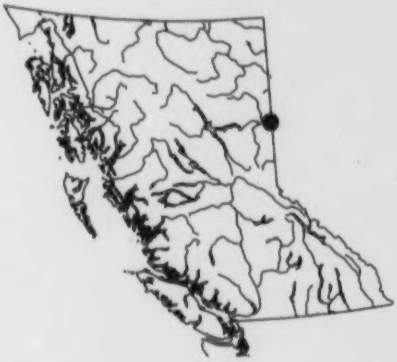
***Atriplex nuttallii* S. Wats.**

Nuttall's orache; moundscale

Habitat/Range: Dry grassy slopes in the montane zone (BWBSmw1); rare in NE BC, known only from Clayhurst Crossing, Peace River; E to SK and S to ID, CO, UT, NM and AZ.

Global/Provincial Rank: G5 S1 Status: Red



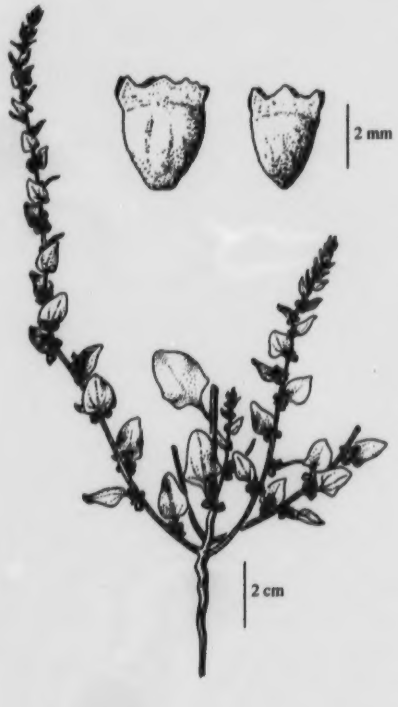


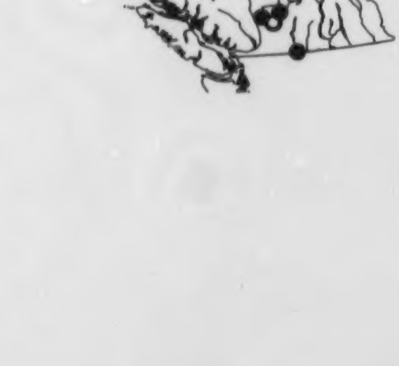
***Atriplex truncata* (Torr. *ex* S. Wats.) A. Gray**

wedgescale orache

Habitat/Range: Dry roadsides, waste places and alkaline flats in the steppe and montane zones (BGxh1, BGxw1, IDFdk4, IDFxh2, IDFxm); rare in S BC east of the Coast-Cascade Mountains; E to SE SK and S to CO, UT and CA.

Global/Provincial Rank: G5 S1 Status: Red



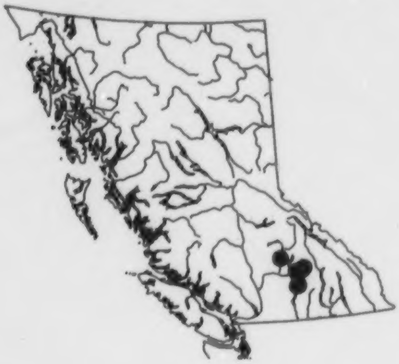


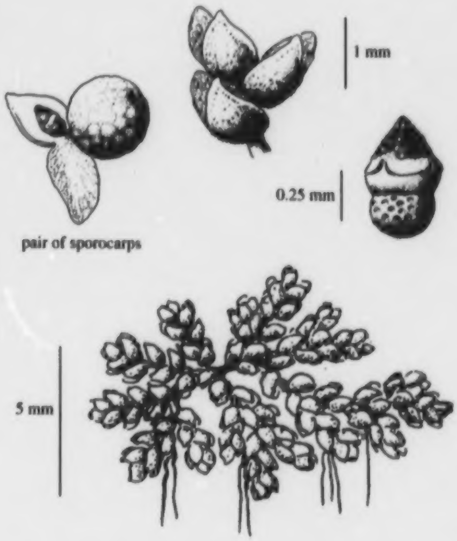
Azolla mexicana **K.B. Presl**

Mexican mosquito fern

Habitat/Range: Sloughs and pools in the montane zone (ICHmw2, IDFxh1a, IDFxh2); rare in SC BC, S to WI, IL, MO, TX, NM and CA.

Global/Provincial Rank: G5 S2 Status: Red





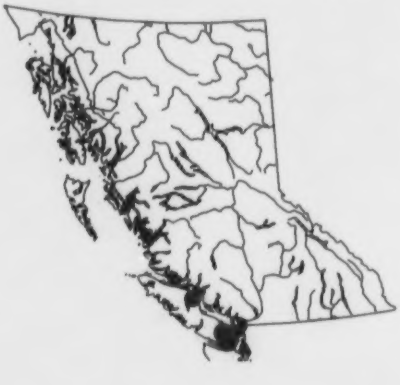
Balsamorhiza deltoidea **Nutt.**

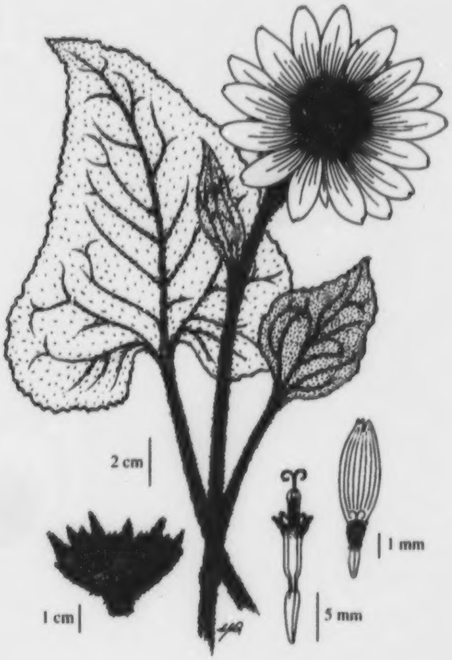
deltoid balsamroot

Habitat/Range: Dry grassy areas and rocky, open woodlands in the lowland zone (CDFmm, CWHxm1); rare on SE Vancouver Island; S to CA.

Global/Provincial Rank: G5 S1 Status: Red

Notes: For colour illustration see Clark (1976).



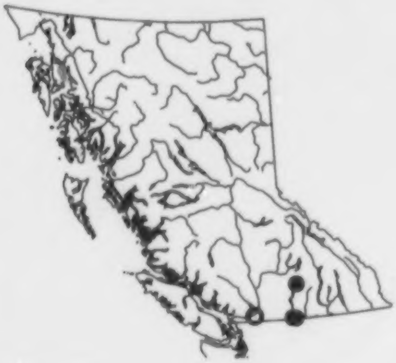


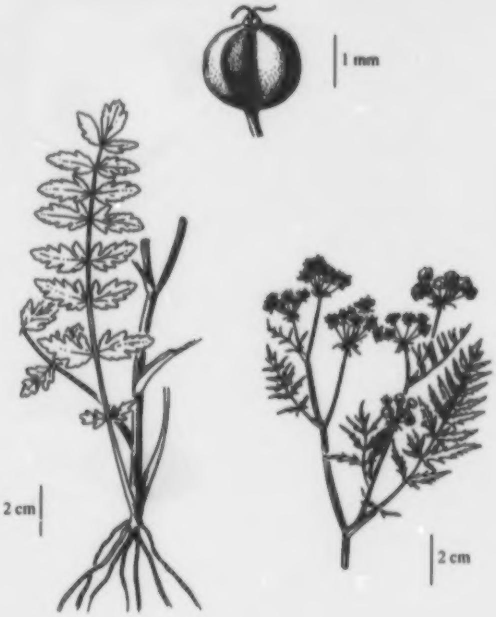
Berula erecta **(Huds.) Cov.**

cut-leaved water-parsnip

Habitat/Range: Wet to moist shorelines, streambanks, ditches and open areas in the lowland, steppe and montane zones (BGxh1, CWHdm, IDFxh1a); rare in S BC; E to NY and S to FL and MX.

Global/Provincial Rank: G4G5 S1 Status: Red



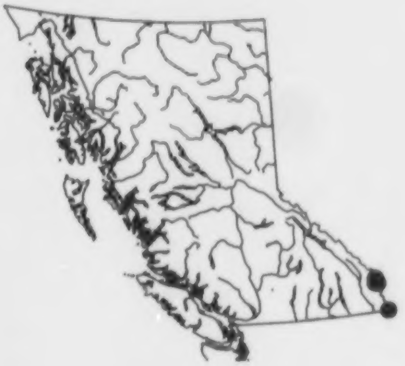


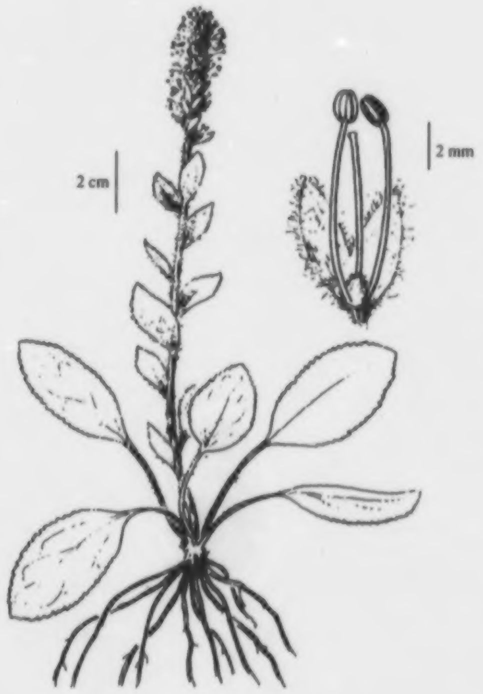
Besseya wyomingensis **(A. Nels.) Rydb.**

Wyoming kitten-tails

Habitat/Range: Dry grassy slopes and ridges in the alpine zone (AT); rare in SE BC; E to SW SK and S to NE, SD, UT, CO and E ID.

Global/Provincial Rank: G5 S2S3 Status: Blue





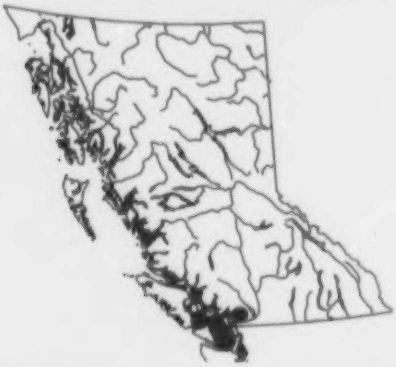
Bidens amplissima **Greene**

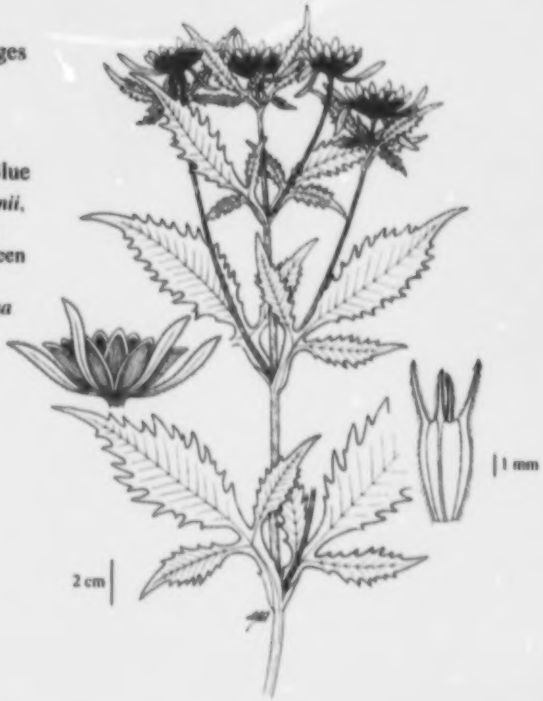
Vancouver Island beggarticks

Habitat/Range: Moist to wet ditches, streambanks and pond edges in the lowland zone (CDFmm, CWHdm, CWHxm1, CWHxm2); rare in SW BC, known from SE Vancouver Island and the adjacent mainland; endemic to BC.

Global/Provincial Rank: G3 S3 Status: Blue

Notes: This poorly understood species, along with *Limnanthes macounii*, has a range restricted to extreme SW BC. Cronquist (1955) suggested that morphologically, *Bidens amplissima* may represent a hybrid between *B. cernua* and *B. frondosa* or *B. vulgata*. However, recent work by Ganders *et al.* (2000) shows an ITS and isozyme similarity to *B. cernua* and *B. tripartita* which suggests it is a recently evolved species.



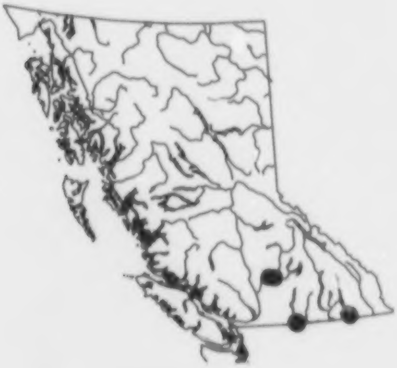


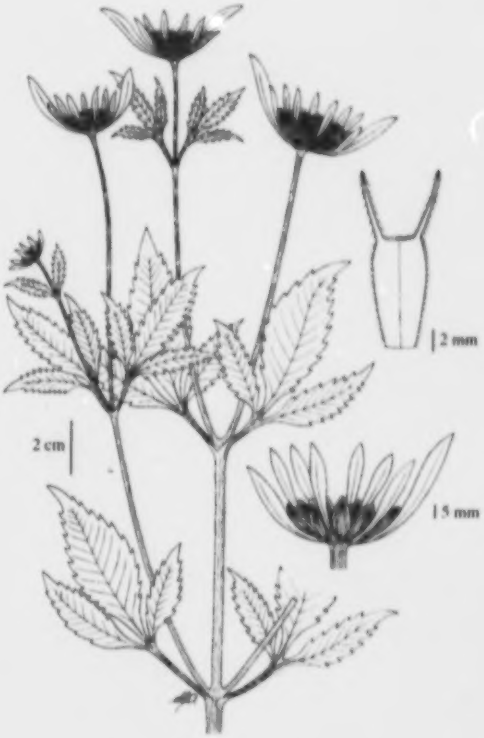
Bidens vulgata **Greene**

tall beggarticks

Habitat/Range: Moist to wet ditches, streambanks and lakeshores in the steppe and montane zones (BGxh1, BGxh2, ICHxw); rare in S BC east of the Coast-Cascade Mountains; E to PQ and S to TN, WY, NV and CA.

Global/Provincial Rank: G5 S1 Status: Red



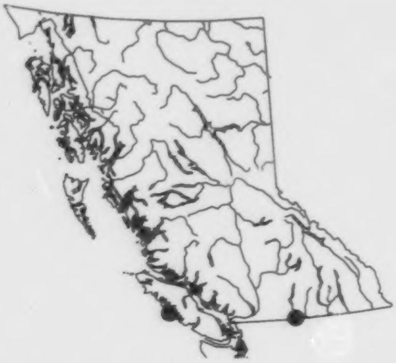


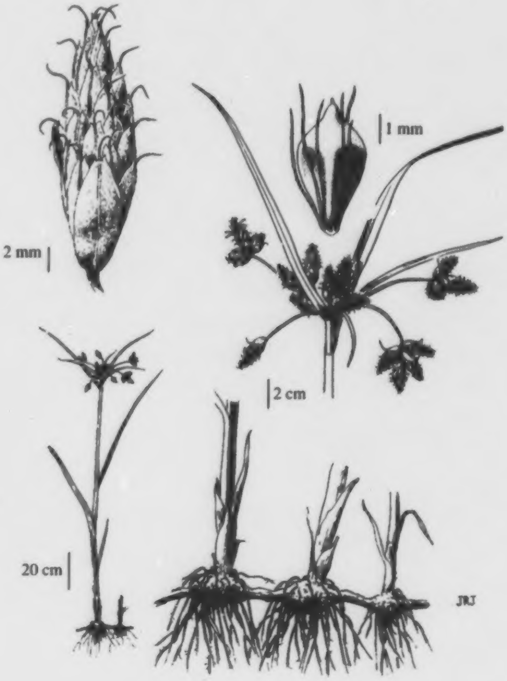
***Bolboschoenus fluviatilis* (Torr.) Sojak** (*Scirpus fluviatilis* [Torr.] A. Gray)

river bulrush

Habitat/Range: Marshes, streamsides and lakeshores in the lowland and steppe zones (BGxh1, CWHvh1); rare in SW and SC BC, known only from Osoyoos Lake and Hesquiat on Vancouver Island; amphiberingian, E to PQ and NB and S to ME, MA, PA, VA, AL, MO, OK, NM, AZ and CA; E Asia.

Global/Provincial Rank: G5 S2S3 Status: Blue





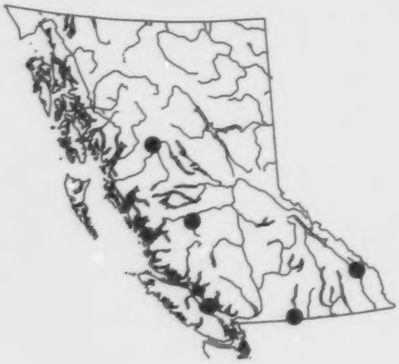
***Botrychium ascendens* W.H. Wagner**

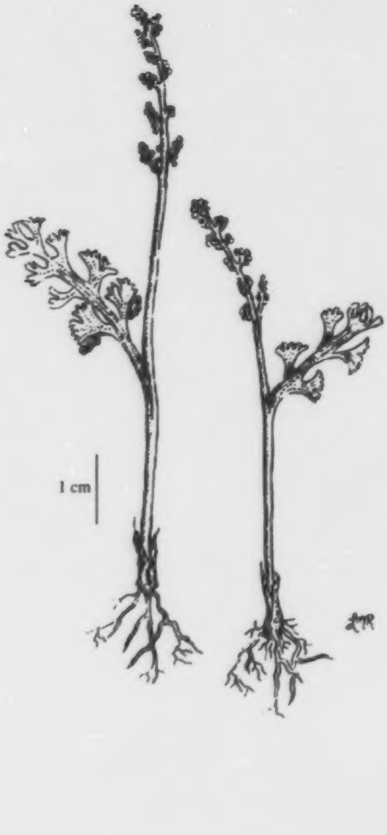
upswept moonwort

Habitat/Range: Mesic to moist grassy fields and meadows in the lowland and montane zones (CWHxm1, IDFdk1); rare in SW, SE and C BC; N to AK, disjunct in ON, S to CO, ID, NV and CA.

Global/Provincial Rank: G2G3 S2 Status: Red

Notes: For colour illustration see Williston (2001).





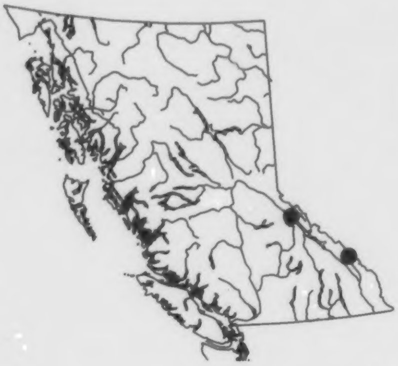
Botrychium boreale **Milde**

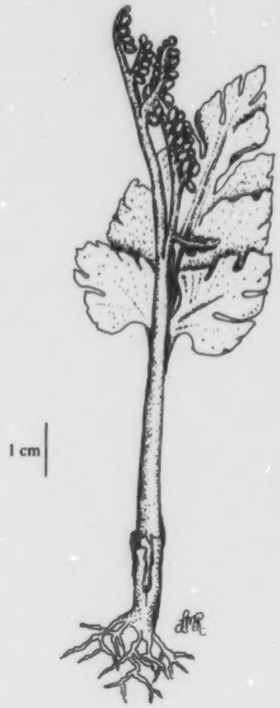
boreal moonwort

Habitat/Range: Mesic to moist roadsides and disturbed sites (ESSFdk, SBSdh1); rare in E BC, known only from Kootenay National Park and the Valemount area; circumpolar, E to AB; N. Eurasia, Greenland.

Global/Provincial Rank: G? S1 Status: Red

Notes: For colour illustration see Williston (2001).





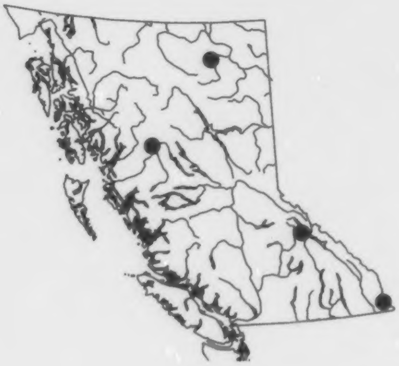
Botrychium crenulatum **W.H. Wagner**

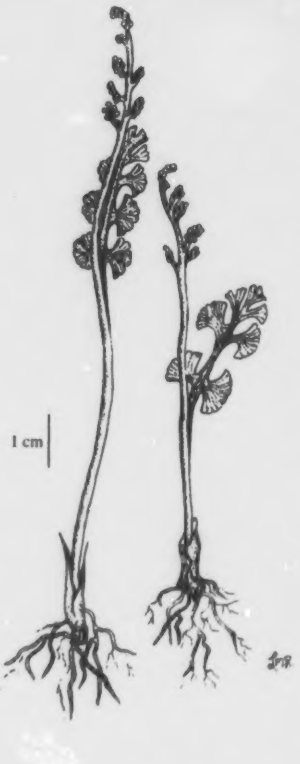
dainty moonwort

Habitat/Range: Marshy meadows and springy places in the montane zone (BWBSmw2, ESSFdk); rare in WC, NE and SE BC; S to WY, AZ and CA.

Global/Provincial Rank: G3 S2S3 Status: Blue

Notes: For colour illustration see Williston (2001).





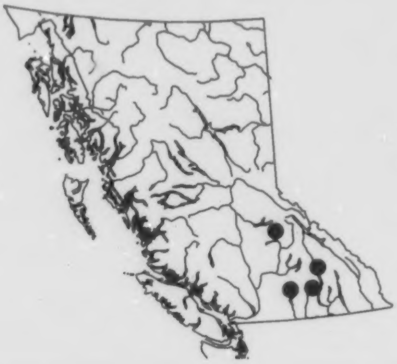
Botrychium hesperium **(Maxon & Clausen) W. H. Wagner & Lellinger** (*B. matricariifolium auct. non* [A. Braun] A. Braun, *B. matricariifolium* [A. Braun] A. Braun ssp. *hesperium* Maxon & Clausen)

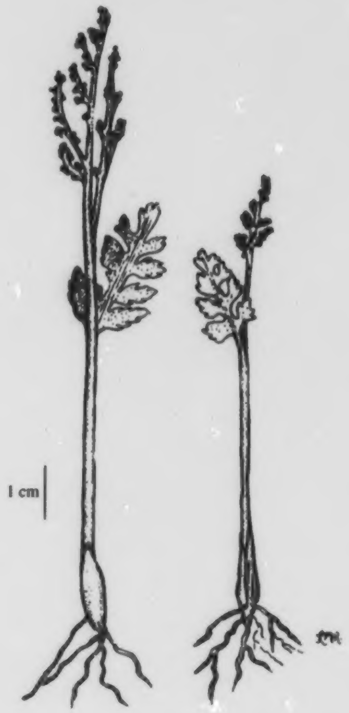
western moonwort

Habitat/Range: Mesic grassy slopes in the montane and subalpine zones (ESSFwc4, ESSFxc, ICHmw2, ICHmw3); rare in SC and SE BC; E to ON and S to MI, MN, CO and AZ, disjunct in ON and MI.

Global/Provincial Rank: G3 S2S3 Status: Blue

Notes: For colour illustration see Williston (2001).



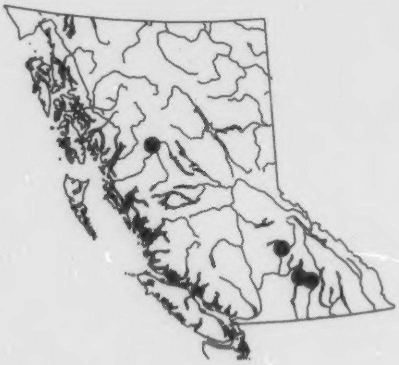


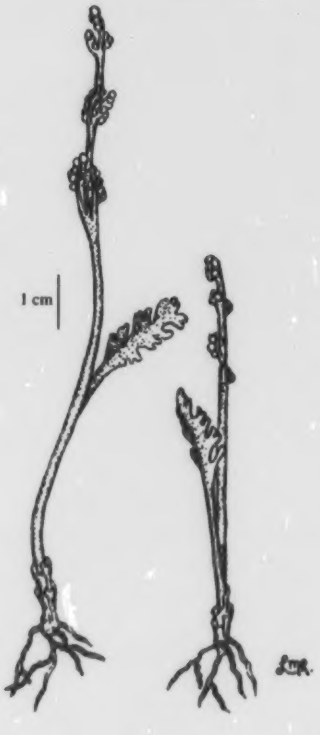
Botrychium montanum **W.H. Wagner**

mountain moonwort

Habitat/Range: Mesic, shady coniferous forests in the upper montane and lower subalpine zones (ICHmc2, ICHmw2, ICHmw3); rare in WC, SC and SE BC; S to MT, ID and CA.

Global/Provincial Rank: G3 S1 Status: Red





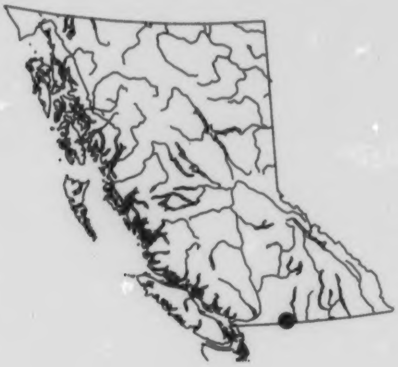
Botrychium paradoxum **W.H. Wagner**

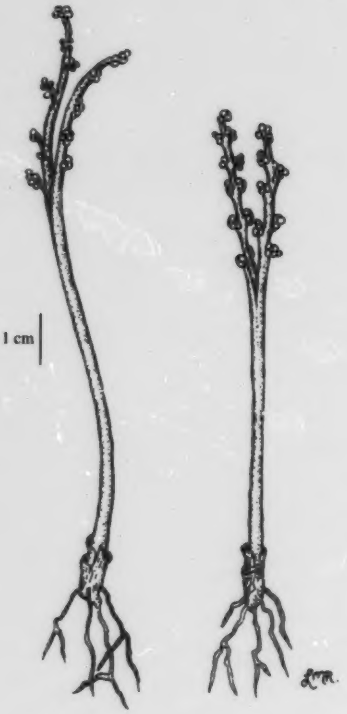
two-spiked moonwort

Habitat/Range: Mesic to moist sedge meadows in the montane zone (IDFdk1, MSxk); rare in SC BC, known only from Juniper Creek (Ashnola River) and Mt. Kobau; E to SK and S to MT, UT, ID and OR.

Global/Provincial Rank: G2 S1 Status: Red

Notes: For colour illustration see Williston (2001).



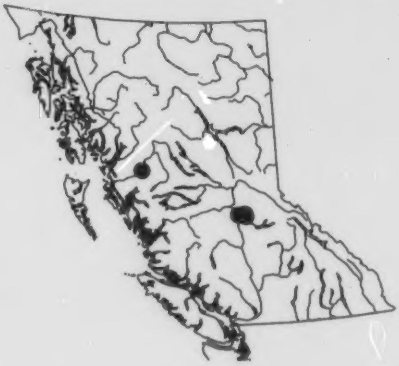


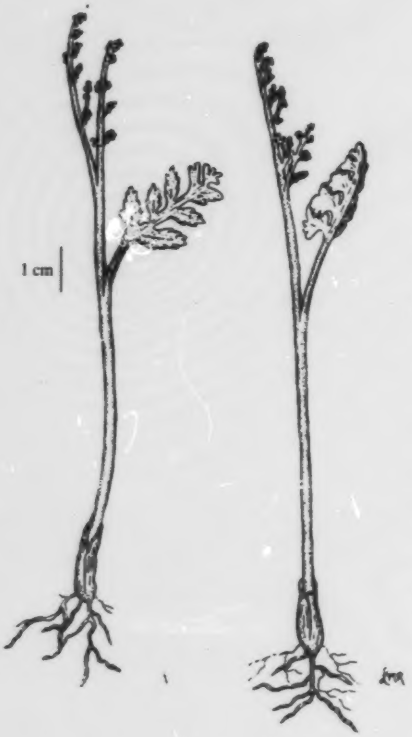
Botrychium pedunculosum **W.H. Wagner**

stalked moonwort

Habitat/Range: Moist to wet meadows and margins of willow thickets in the montane zone (CWHws1, SBSmh, SBSmw); rare in WC (Skeena River) and EC BC (Quesnel area); E to SK and S to MT, ID, and OR.

Global/Provincial Rank: G2G3 S2 Status: Red





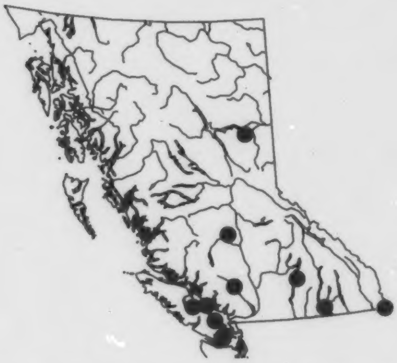
Botrychium simplex **E. Hitchc.**

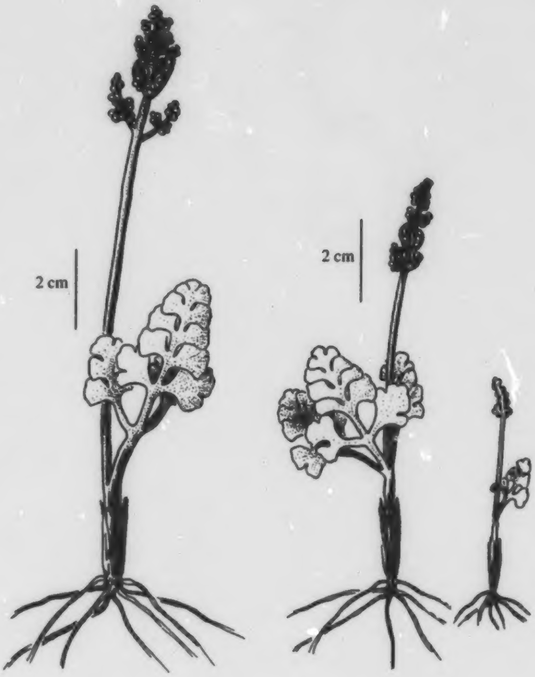
least moonwort

Habitat/Range: Moist to wet vernal pools and ephemeral seepages in the lowland and montane zones (BWBSmw1, CDFmm, CWHds1, CWHxm1, CWHxm2, ICHmw2, IDFxh1, MSdk, SBPSxc); rare in BC south of 56°N; circumpolar, E to SK, disjunct E to ON, PQ and NF and S to MA, NH, NC, MS, IA, SD, CO, UT, NV and CA; Eurasia.

Global/Provincial Rank: G5 S2S3 Status: Blue

Notes: For colour illustration see Williston (2001).



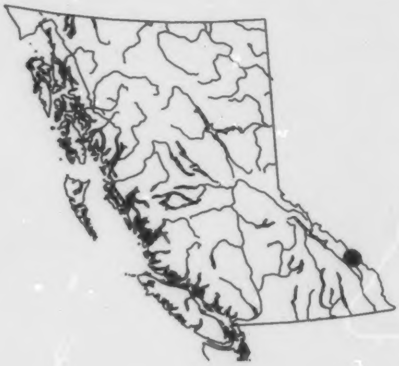


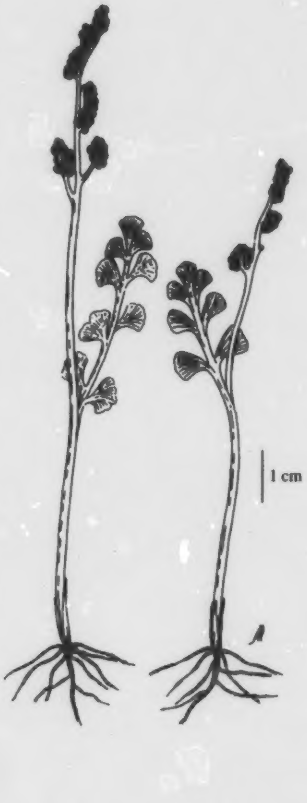
Botrychium spathulatum **W.H. Wagner**

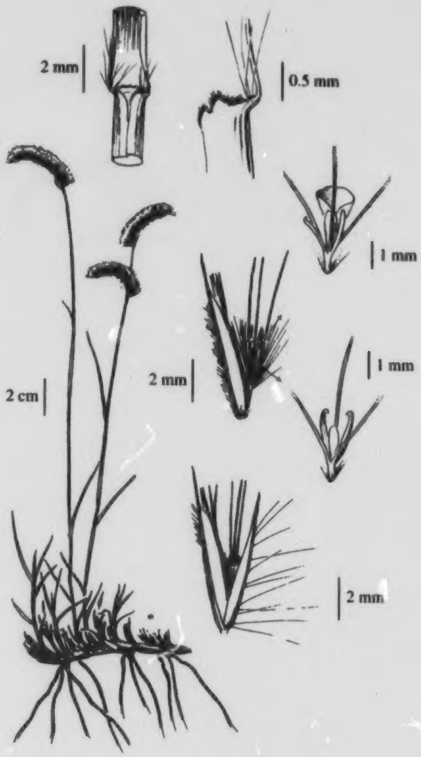
spoon-shaped moonwort

Habitat/Range: Dry to mesic sand dunes, old fields and grassy railroad sidings in the montane zone (MSdk); rare in SE BC, known only from Kootenay National Park; N to AK, YT and NT, E to AB and S to MT, disjunct E to ON, PQ, NS and to MI and WI.

Global/Provincial Rank: G3 S1 Status: Red







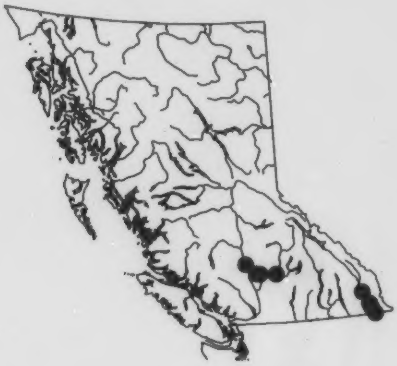
Bouteloua gracilis (Willd. ex Kunth) Lag. ex Griffiths
(*Chondrosum gracile* Willd. *ex* Kunth)

blue grama

Habitat/Range: Dry grasslands in the steppe zone (BGxh2, BGxw1, IDFdm2, PPxh2); rare in SC and SE BC; E to S MB and S to ME, NY, SC, MO, TX, NM, AZ and CA.

Global/Provincial Rank: G5 S1 Status: Red

Notes: For colour illustration see Taylor (1992).

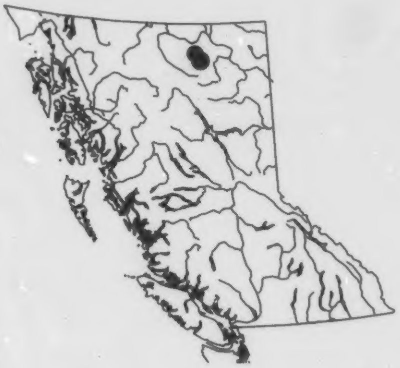


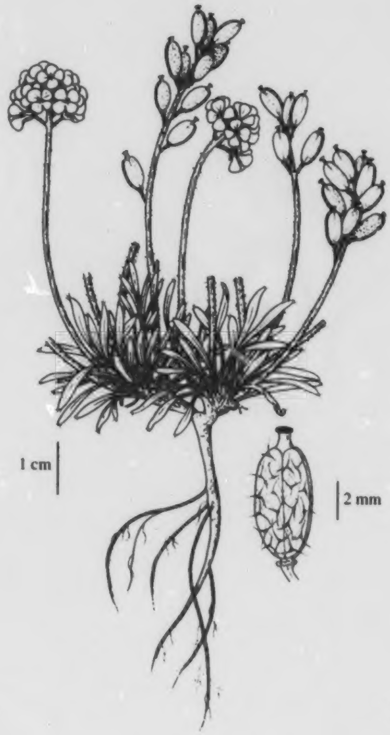
Braya purpurascens (R. Br.) Bunge ex Ledeb. (*B. americana* [Hook.] Fern., *B. glabella* Rich., *B. henryae* Raup)

purple braya

Habitat/Range: Dry scree slopes in the alpine zone (AT); rare in N BC; circumpolar, N to AK, YT and NT and E to PQ; Eurasia, Greenland.

Global/Provincial Rank: G4G5Q S2S3 Status: Blue





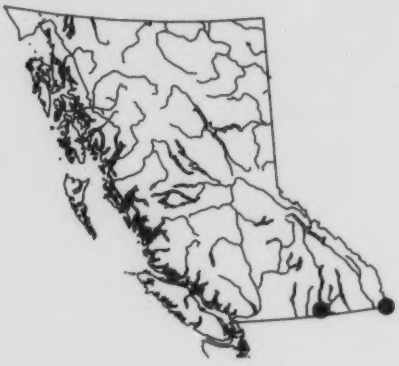
***Brickellia grandiflora* (Hook.) Nutt.**

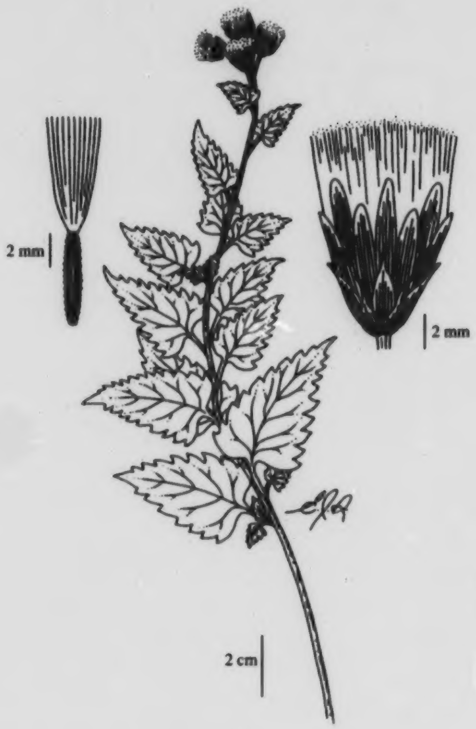
large-flowered brickellia

Habitat/Range: Moist to mesic meadows and open forests in the montane to lower subalpine zones (MSdk); rare in SE BC, known only from Poulson and Sage Creek, Flathead River valley; E to SW AB and S to NW MT and N ID.

Global/Provincial Rank: G5 S1 Status: Red

Notes: The first BC collection for this species was made in 1993 (Douglas *et al.*1994).



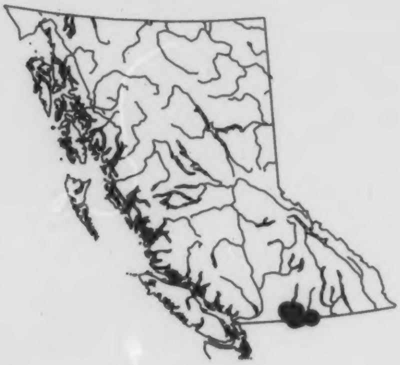


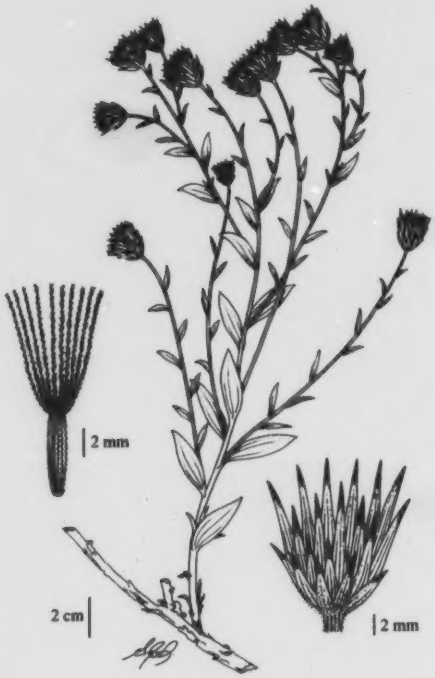
Brickellia oblongifolia* Nutt. ssp. *oblongifolia

narrow-leaved brickellia

Habitat/Range: Dry rocky slopes, grasslands and shrublands in the steppe zone (BGxh1, IDFxh1, PPdh1, PPxh1); rare in SC BC; S to ND, NM, AZ and CA.

Global/Provincial Rank: G5T5 S2 Status: Red





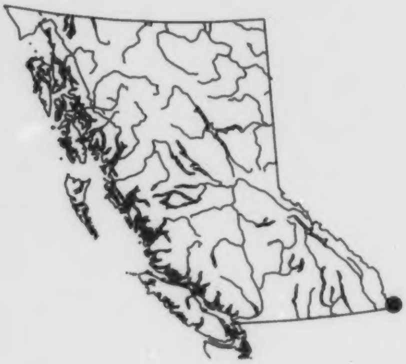
Bupleurum americanum **Coult. & Rose** (*B. triradiatum* Adams ssp. *arcticum* [Reg.] Hult.)

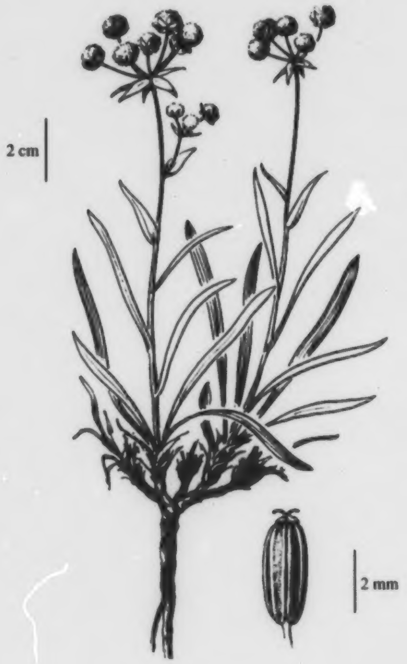
American thorough-wax

Habitat/Range: Dry rock outcrops, grasslands and shrublands in the montane zone (ESSFdkp); rare in S BC, known only from Kootenay Pass; N to AK, YT and NT, E to AB and S to ID and WY.

Global/Provincial Rank: G5 S2S3 Status: Blue

Notes: The only record of this species may have been taken on the Alberta side of the Kootenay Pass. For colour illustration see Shaw and On (1991).



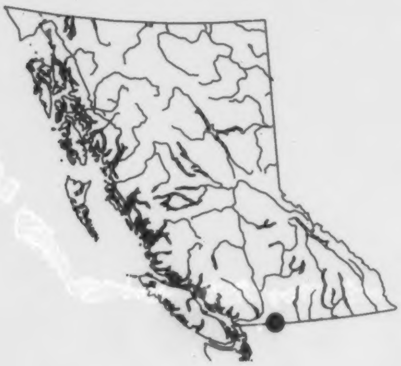


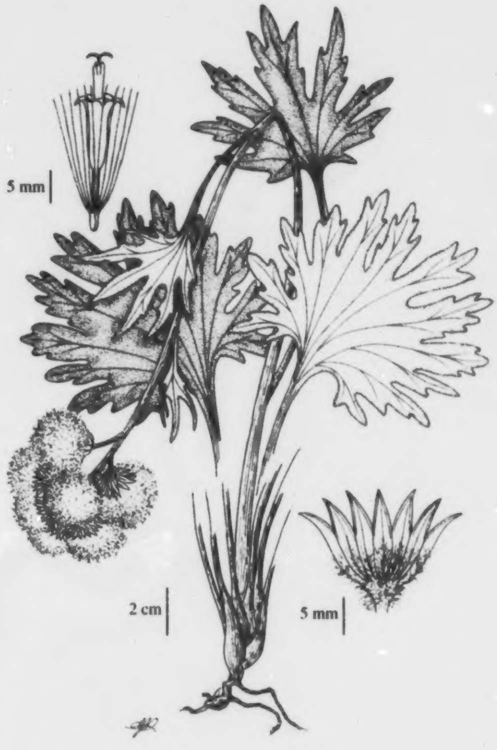
Cacaliopsis nardosmia **(A. Gray) A. Gray** (*Luina nardosmia* [A. Gray] Cronq. var. *glabrata* [Piper] Cronq.)

silvercrown

Habitat/Range: Mesic to dry rocky slopes, meadows and forest margins in the montane and subalpine zones (ESSFmwp); rare in SW BC, known only from Manning Provincial Park; S to S OR.

Global/Provincial Rank: G4G5 S1 Status: Red



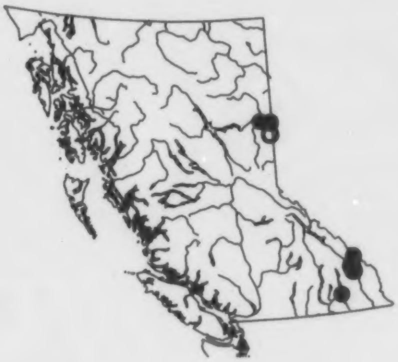


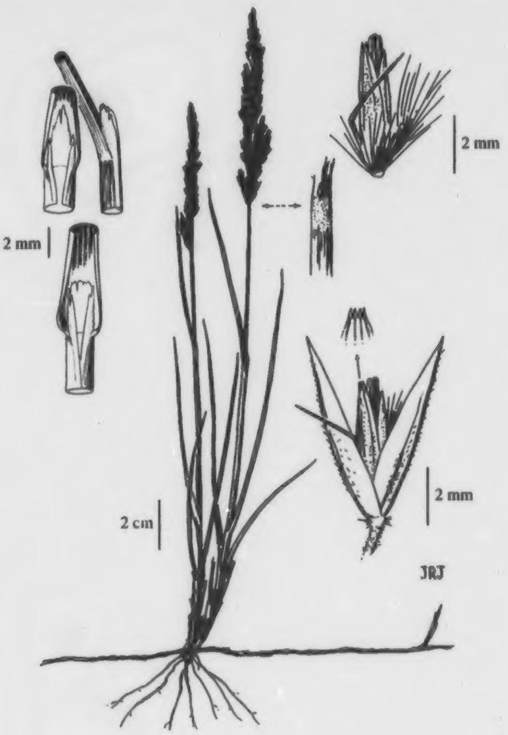
Calamagrostis montanensis **(Scribn.) Scribn.**

plains reedgrass

Habitat/Range: Dry slopes and open forests in the montane zone (BWBSmw1, ICHdw, IDFdm2, IDFun); rare in SE and NE BC; E to MB and S to MN, SD, CO and ID.

Global/Provincial Rank: G5 S1 Status: Red





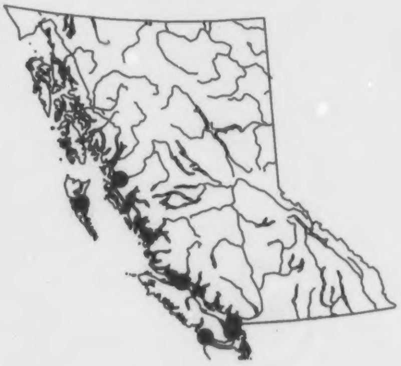
Callitriche heterophylla **Pursh ssp.** ***heterophylla*** (*C. anceps* Fern.)

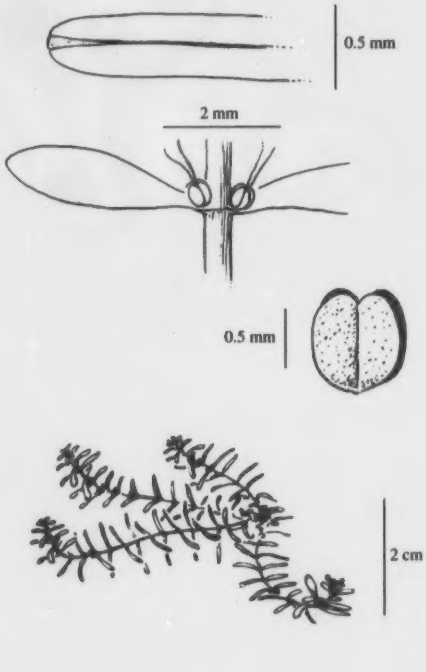
two-edged water-starwort

Habitat/Range: Shallow ponds, slow-moving streams and shorelines in the lowland zone (CDFmm, CWHvm1, CWHxm1); rare in coastal BC; N to AK, YT, NT, E to NF and S to GA, TX, OK and CA.

Global/Provincial Rank: G5T5 S2S3 Status: Blue

Notes: The taxonomy of this species is not clear.



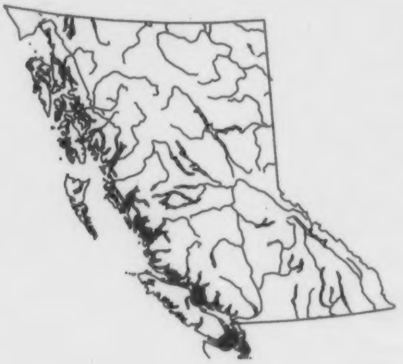


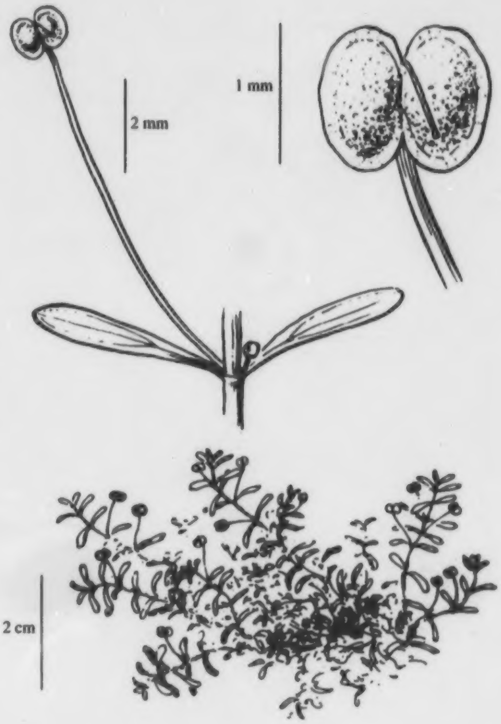
Callitriche marginata **Torr.**

winged water-starwort

Habitat/Range: Vernal pools in the lowland zone (CDFmm); rare in SW BC, known only from S Vancouver Island and Mitlenatch Island; S to CA and MX.

Global/Provincial Rank: G4 S1 Status: Red





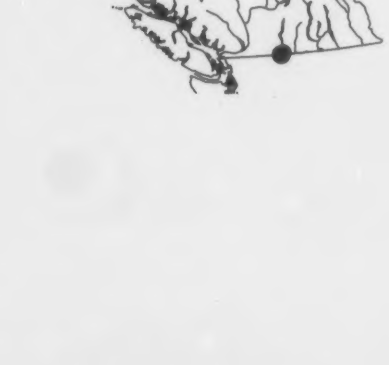
Calochortus lyallii **Baker**

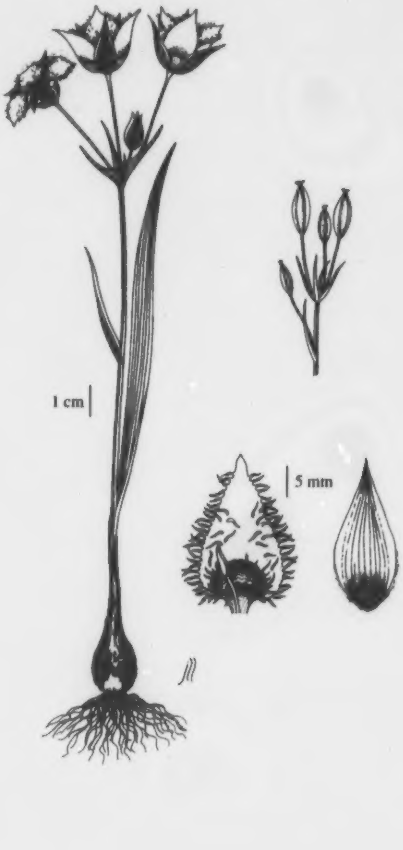
Lyall's mariposa lily

Habitat/Range: Dry to mesic forest openings in the montane zone (IDFdk1); rare in SC BC; S to SE WA.

Global/Provincial Rank: G3 S2 Status: Red

Notes: For colour illustration see Clark (1976) and Taylor (1992).



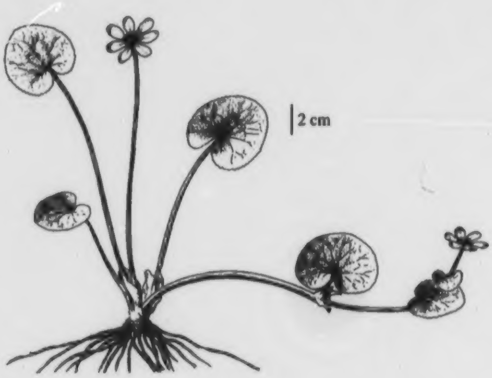


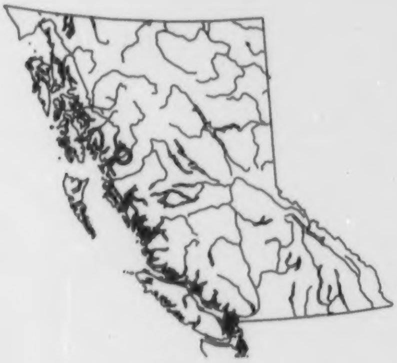
Caltha palustris* L. var. *palustris (*C. asarifolia* DC., *C. palustris* ssp. *asarifolia* [DC.] Hult.)

yellow marsh-marigold; yellow elkslip

Habitat/Range: Bogs and shallow, brackish marshes in the lowland zone (CDFmm, CWHvm1, CWHwm, CWHws1); rare along the coast in BC; N to AK, YT and NT, E to NF and S to WV, TN, NC, NE, OR and CA.

Global/Provincial Rank: G5T5 S2S3 Status: Blue





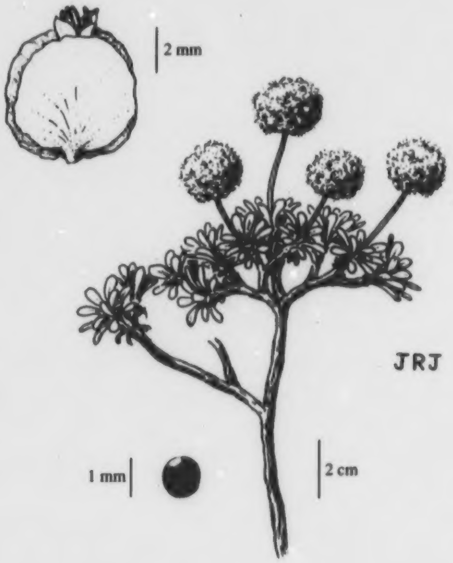
***Calyptridium umbellatum* (Torr.) Greene var. *caudiciferum* (A. Gray) Jepson** (*Cistanthe umbellata* [Torr.] Hershkovitz var. *caudicifera* [A. Gray] Kartesz & Gandhi, *Spraguea umbellata* Torr.)

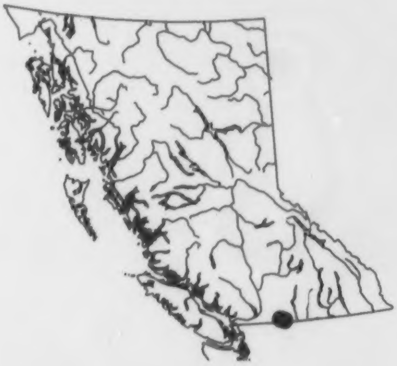
Mount Hood pussypaws

Habitat/Range: Dry sandy sites and scree slopes from the montane to alpine zones (AT, ESSFxc); rare in SC BC, known only from Placer Mountain and Cathedral Provincial Park; S to CA.

Global/Provincial Rank: G4G5T? S2S3 Status: Blue

Notes: For colour illustration see Clark (1976).



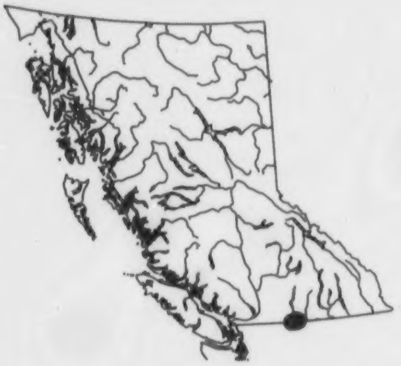


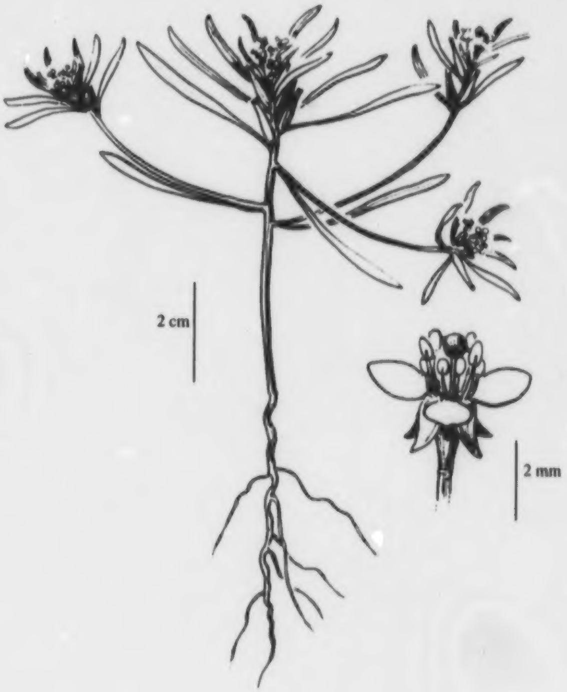
***Camissonia andina* (Nutt.) Raven** (*Oenothera andina* Nutt.)

evening-primrose; Andean evening-primrose

Habitat/Range: Dry shrublands in the steppe zone (BGxh1); rare in SC BC, known only from the Osoyoos and Richter Mountain; E to SK and S to WY and CA.

Global/Provincial Rank: G4 S1 Status: Red





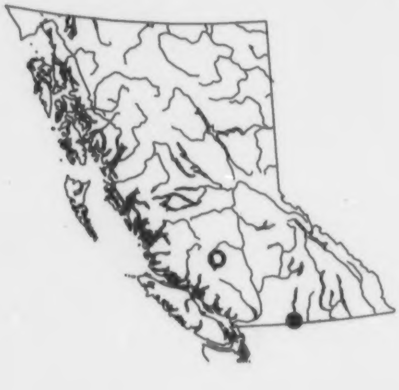
***Camissonia breviflora* (T. & G.) Raven** (*Oenothera breviflora* T. & G.)

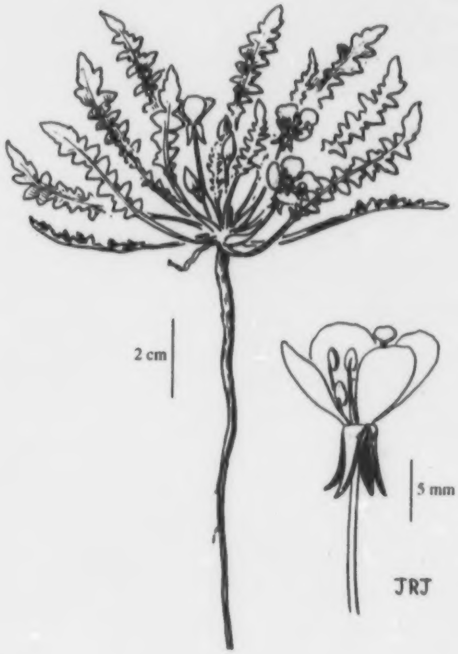
short-flowered evening-primrose

Habitat/Range: Dry open areas in the steppe zone (IDFdk4, MSxh); rare in SC BC, known recently from Mount Kobau; E to SK and S to UT and CO.

Global/Provincial Rank: G5 S1 Status: Red

Notes: This species was collected in 1992 on Mt. Kobau by F. Lomer. The only collection previous to this was made in the Chilcotin area in 1925.



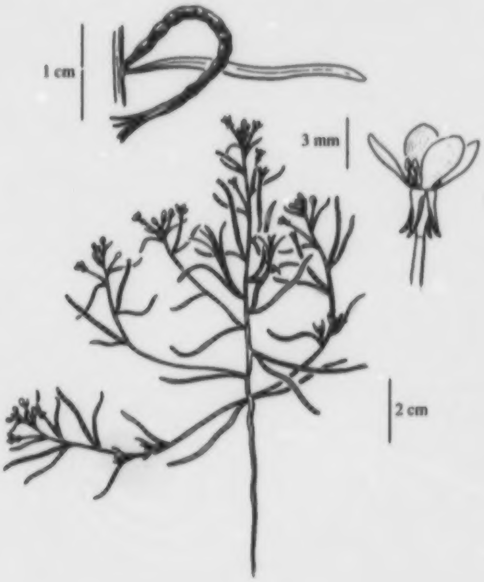


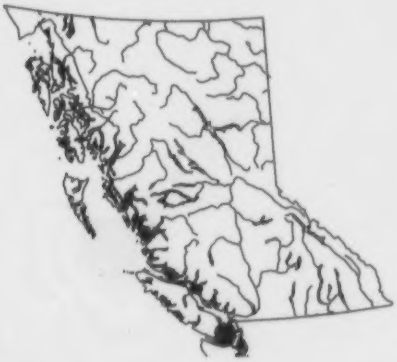
***Camissonia contorta* (Dougl. *ex* Hook.) Kearney**
(*Oenothera contorta* Dougl. *ex* Hook.)

contorted-pod evening-primrose

Habitat/Range: Open, sandy areas in the lowland zone (CDFmm); rare on S Vancouver Island; S to CA, NV and ID.

Global/Provincial Rank: G5 S1 Status: Red





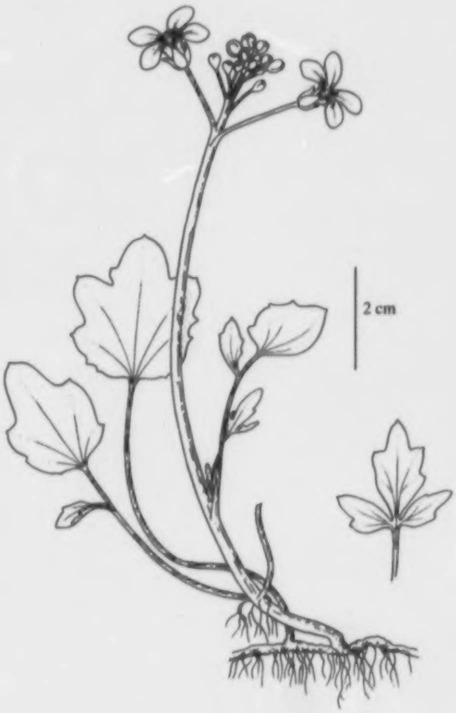
***Cardamine angulata* Hook.**

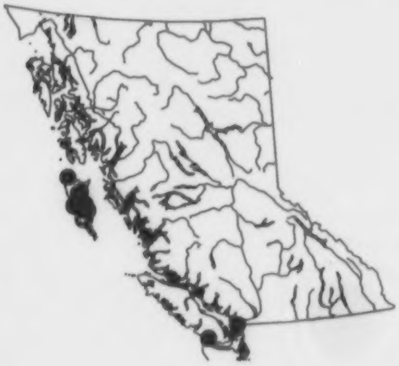
angled bitter-cress

Habitat/Range: Moist woods and river banks in the lowland zone (CWHdm, CWHvh1, CWHvh2, CWHwh1); rare on the Queen Charlotte Islands and Vancouver Island; N to S AK and S to N CA.

Global/Provincial Rank: G5 S2S3 Status: Blue

Notes: For colour illustration see Pojar and MacKinnon (1994).



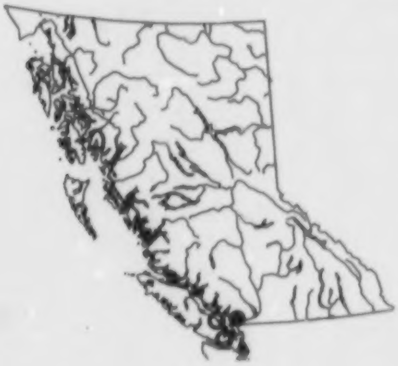


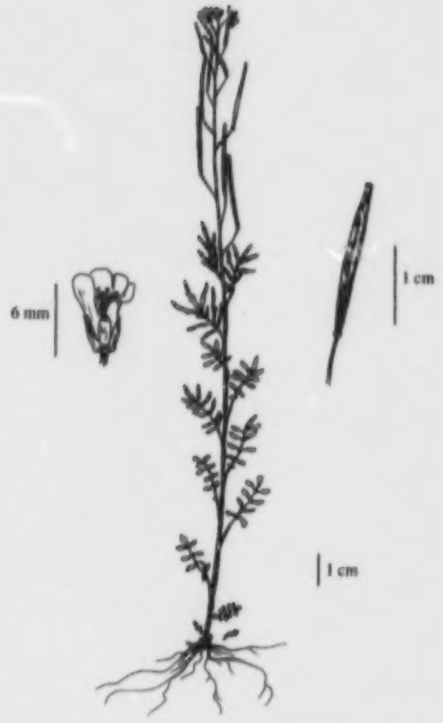
Cardamine parviflora L. var. _arenicola_ (Britt.) O.E. Schulz

small-flowered bitter-cress

Habitat/Range: Dry sandy or rocky places in the lowland and montane zones (CWHdm, CDFmm); rare in SW BC; circumpolar, N to NT, E to NF, S to TX, FL and OR; Eurasia.

Global/Provincial Rank: G5T5 S1 Status: Red



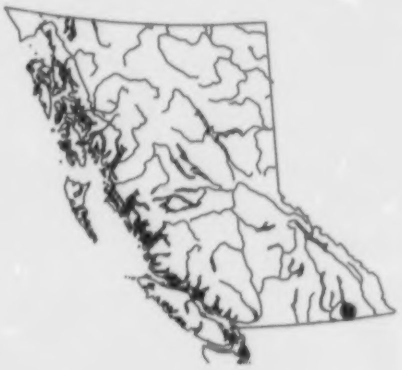


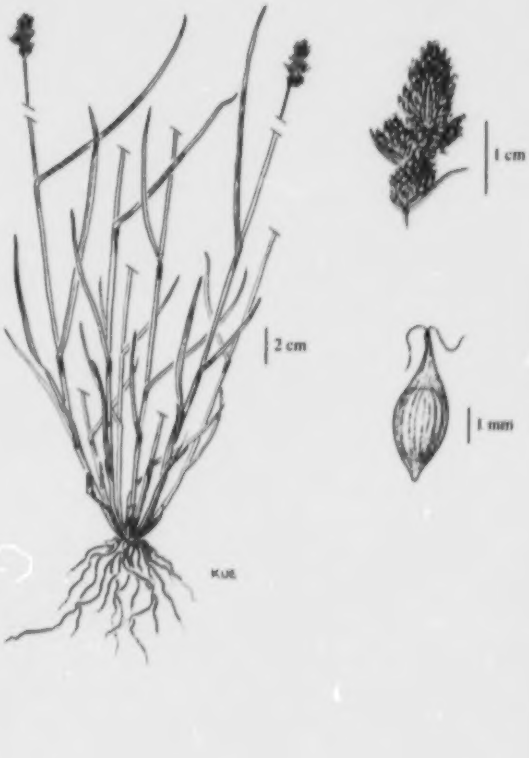
Carex adusta Boott

lesser brown sedge

Habitat/Range: Dry disturbed sites and open forests in the lowland zone (ICHxw); rare in SE BC, known only from Nakusp; N to NT, E to Labr. and NF and S to MA, NH, MI, MN and ID.

Global/Provincial Rank: G5 S1 Status: Red



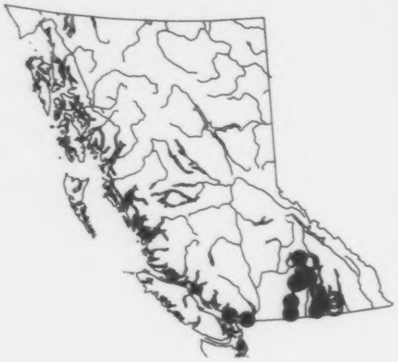


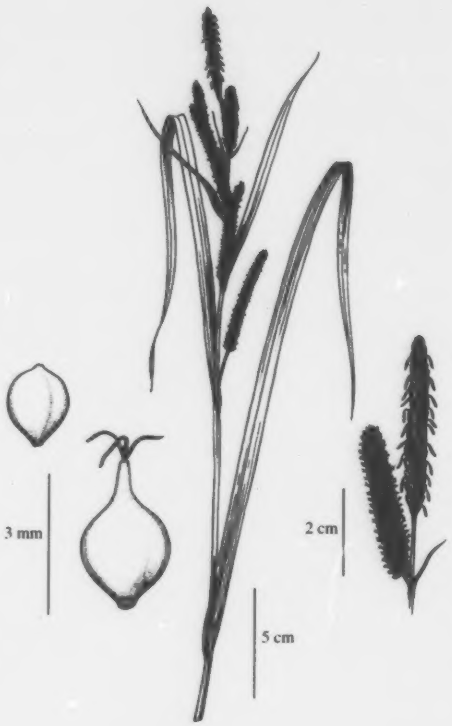
Carex amplifolia Boott

bigleaf sedge

Habitat/Range: Moist meadows, swamps and bogs in the lowland and montane zones (CWHdm, ICHdw, ICHmw2, ICHmw3, ICHwk1, IDFmw1, IDFxh1a); rare in SE and SC BC, and in the lower Fraser Valley; S to MT, ID, NV and CA, disjunct in NM.

Global/Provincial Rank: G4 S2S3 Status: Blue



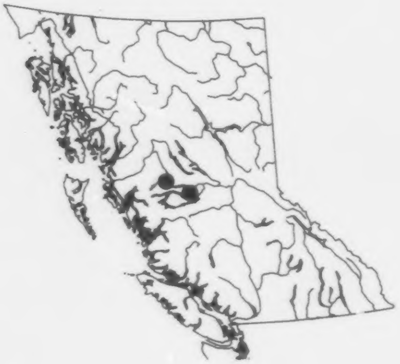


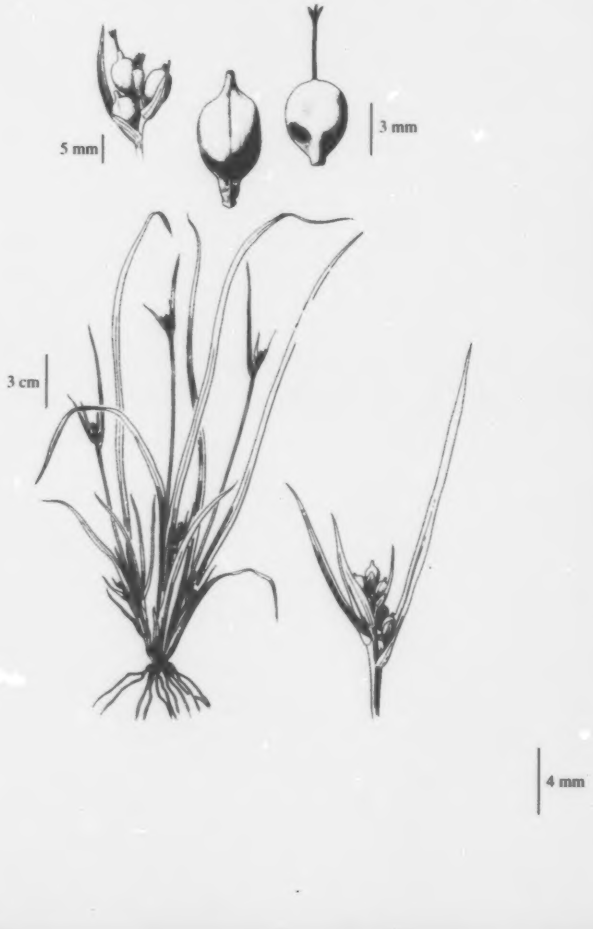
Carex backii Boott

Back's sedge

Habitat/Range: Moist to mesic grasslands and alluvial forests in the montane zone (SBSdk); rare in WC BC; E to PQ and NB and S to ME, MA, NY, MI, WI, IA, SD, CO, UT and OR.

Global/Provincial Rank: G4 S2S3 Status: Blue



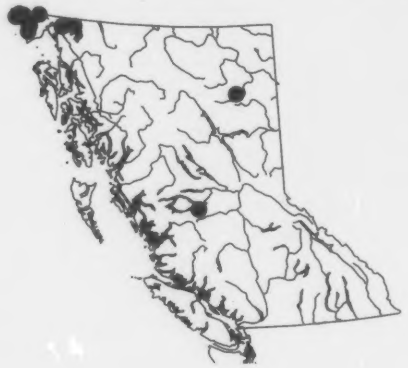


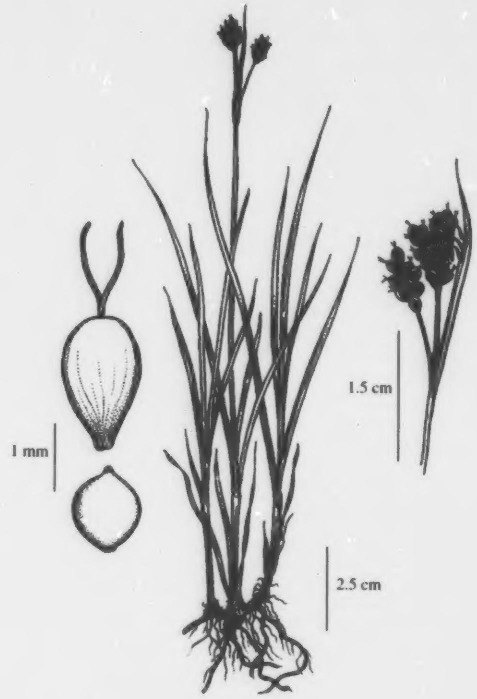
***Carex bicolor* Bell. *ex* All.**

two-coloured sedge

Habitat/Range: Moist to wet meadows and shorelines in the montane to alpine zones (AT, BWBSdk1, BWBSmw2, BWBSvk, ESSFmv1, ESSFwv, SWBvk); rare in C and N BC; circumpolar, N to AK, YT and NT and E to NF, Greenland, Iceland, Eurasia.

Global/Provincial Rank: G5 S2S3 Status: Blue



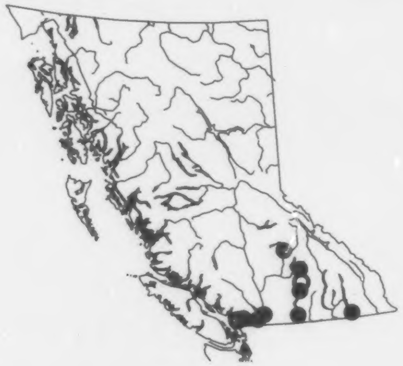


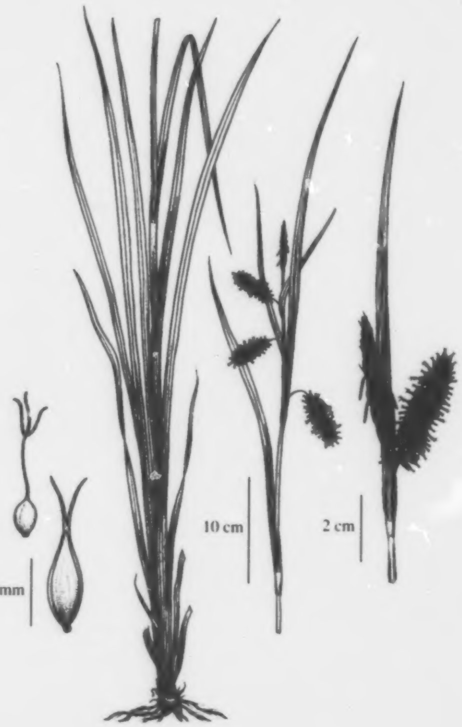
***Carex comosa* Boott**

bearded sedge

Habitat/Range: Shorelines and wet meadows in the lowland, steppe and montane zones (BGxh1, CWHdm, CWHds1, ICHmw2, ICHxw, IDFmw2, IDFxh1); rare in SW and SC BC; E to PQ, NB and NS and S to ME, MA, NY, NC, FL, MS, TX, ND, ID and CA.

Global/Provincial Rank: G5 S2S3 Status: Blue



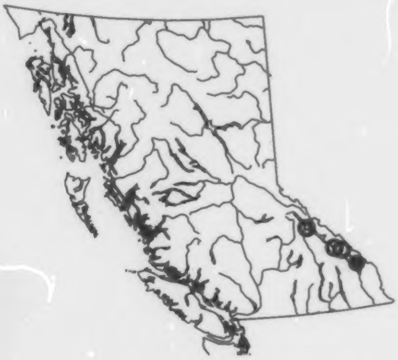


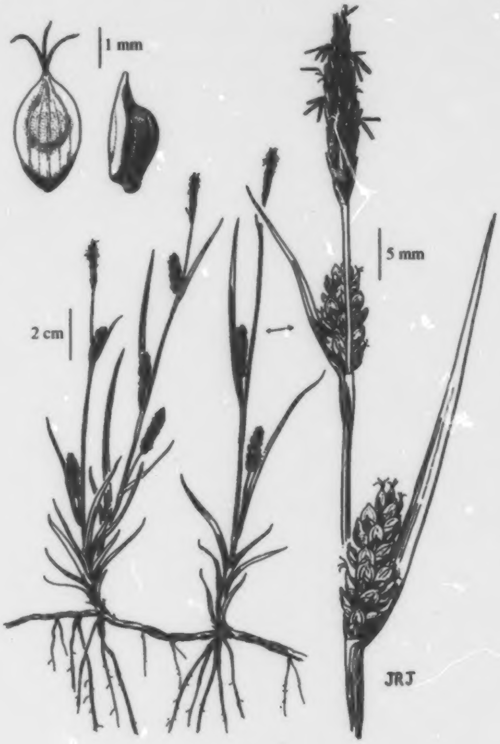
***Carex crawei* Dewey**

Crawe's sedge

Habitat/Range: Moist meadows and calcareous bogs in the montane zone (ICHmk1, ICHwk1, IDFdm2); rare in SE BC; E to PQ and NB and S to ME, VA, GA, AR, OK, CO, UT and ID.

Global/Provincial Rank: G5 S1 Status: Red



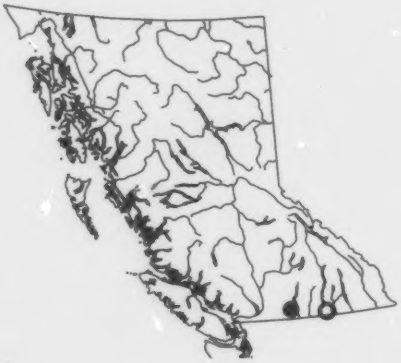


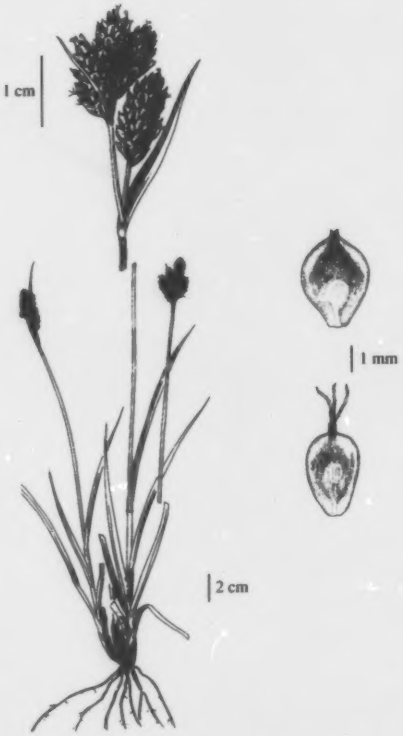
***Carex epapillosa* Mack.** (*C. atrata* L. var. *erecta* Boott, *C. heteroneura* W. Boott var. *epapillosa* [Mack.] F.J. Herm.)

blackened sedge

Habitat/Range: Moist to dry meadows in the upper subalpine to alpine zones (ESSFdcp1, ESSFxcp); rare in SC and SE BC; E to SW AB and S to CO, AZ and CA.

Global/Provincial Rank: G5 S2S3 Status: Blue



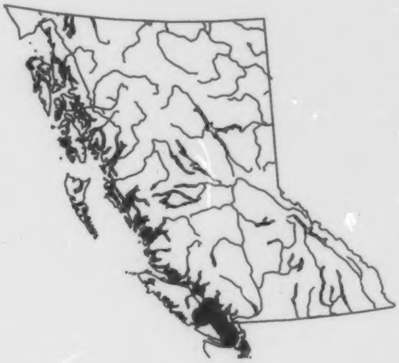


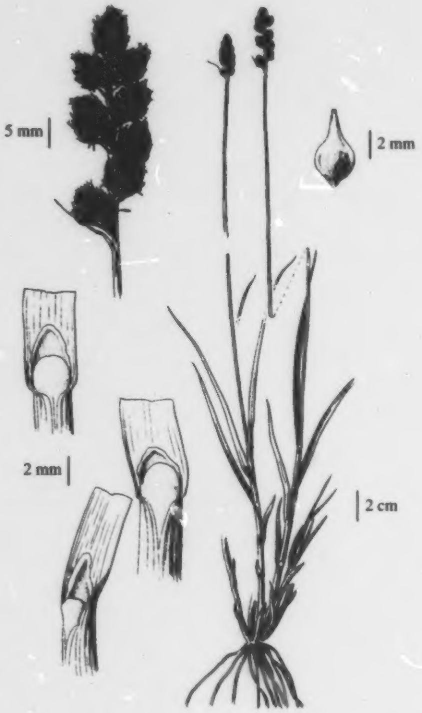
***Carex feta* Bailey** (*C. straminea* Willd. *ex* Schkuhr var. *mixta* Bailey)

green-sheathed sedge

Habitat/Range: Ditches, marshes and wet meadows in the lowland and montane zones (CDFmm, CWHxm1, CWHxm2); rare in S BC, S to CA.

Global/Provincial Rank: G5 S2S3 Status: Blue



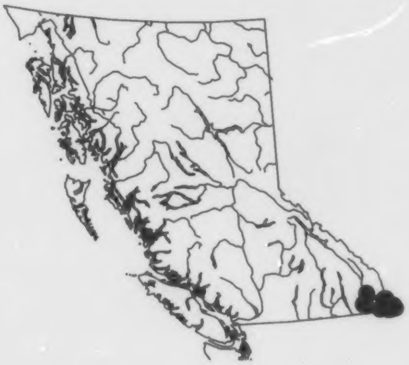


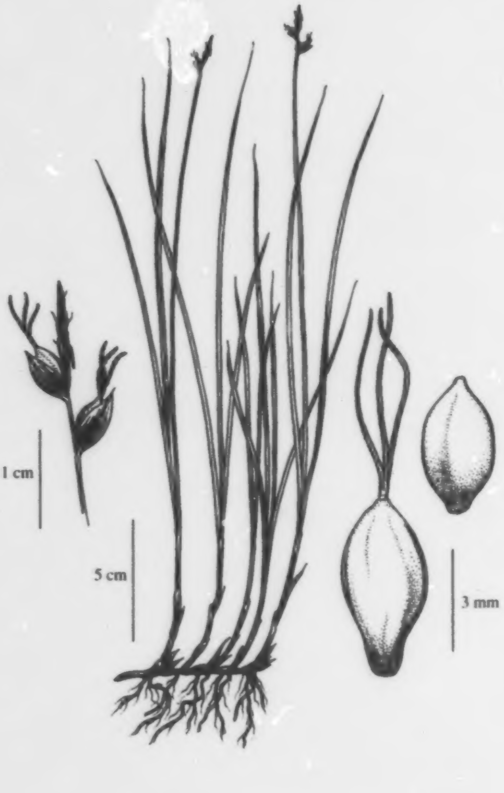
***Carex geyeri* Boott**

elk sedge; Geyer's sedge

Habitat/Range: Dry meadows and open forests in the montane to alpine zones (AT, ESSFdk, ESSFdkp, ICHmk1, IDFdm2, MSdk); rare in SE BC; E to SW AB and S to CO, UT, NV and CA.

Global/Provincial Rank: G5 S3 Status: Blue



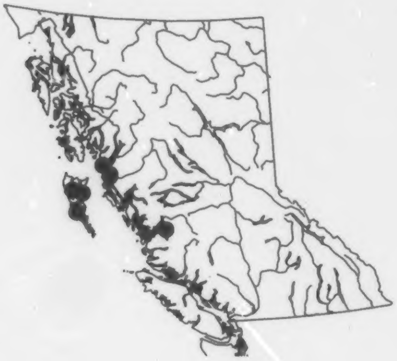


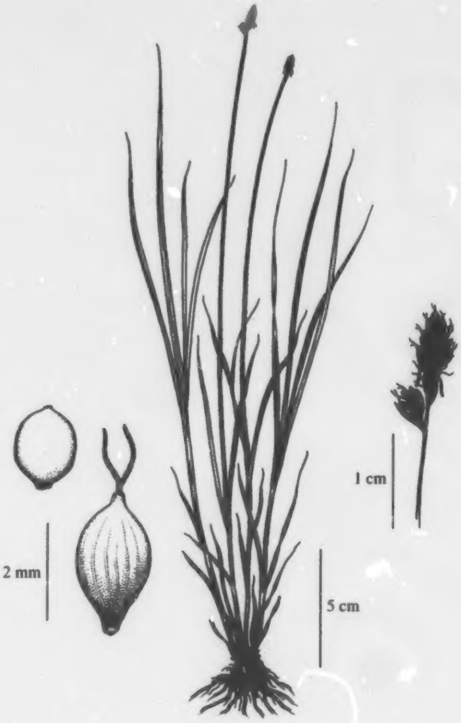
***Carex glareosa* Wahlenb. var. *amphigena* Fern.** (*C. marina auct. non* Dewey)

lesser saltmarsh sedge

Habitat/Range: Saline marshes in the lowland zone (CWHds2, CWHvh2, CWHwh1); rare in coastal BC north of Vancouver Island; circumpolar, N to AK, YT and NT, E disjunctly to PQ and NF; Eurasia.

Global/Provincial Rank: G4G5T? S2S3 Status: Blue



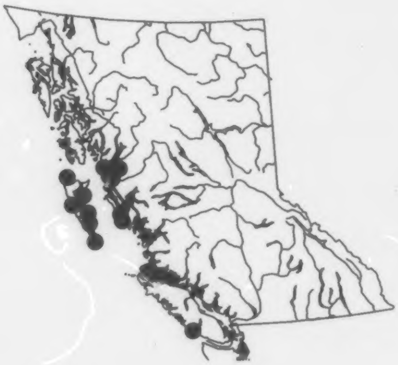


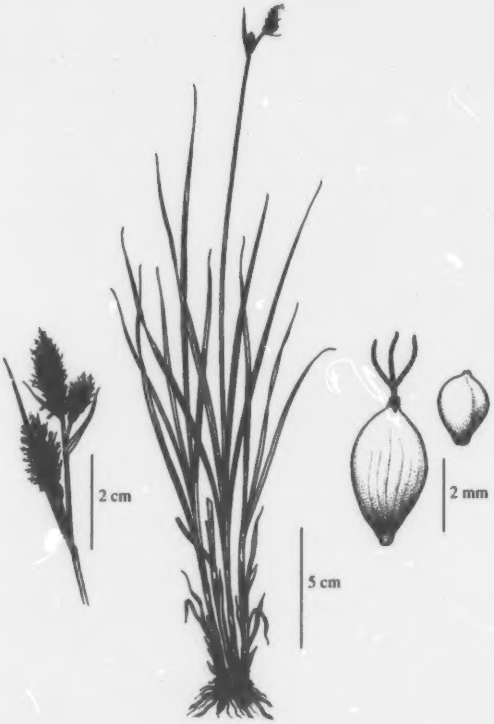
***Carex gmelinii* Hook. & Arn.**

Gmelin's sedge

Habitat/Range: Saline marshes, bluffs and meadows in the lowland zone (CWHvh1, CWHvh2, CWHwh1, CWHwm); rare in coastal BC; amphiberingian, N to AK and YT; E Asia.

Global/Provincial Rank: G4G5 S2S3 Status: Blue



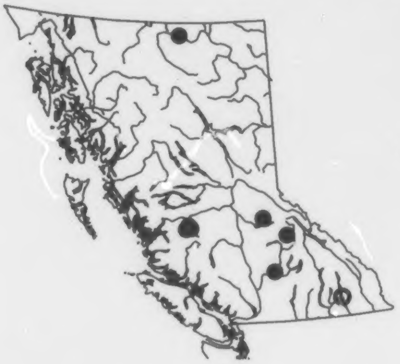


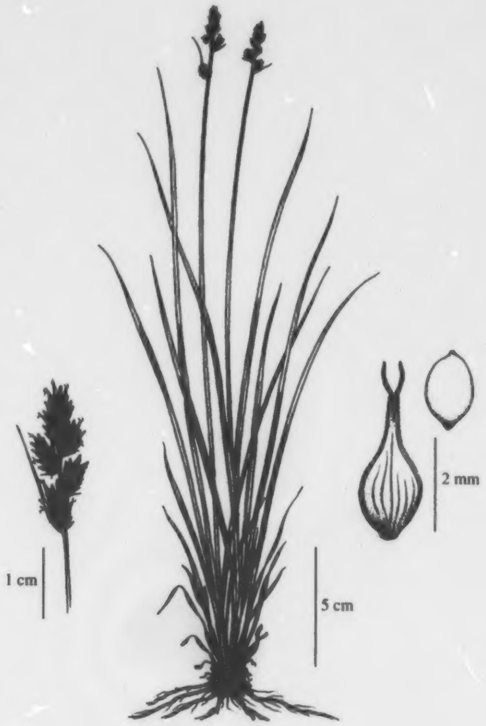
Carex heleonastes **L.f.** (*C. praeceptorium* Mack.)

Hudson Bay sedge

Habitat/Range: Bogs and fens in the montane zone (BWBSdk2, ESSFwk1, ICHdw, ICHmw3, IDFdk1, SBPSxc); rare in C, SC, SE and N BC; circumpolar, N to AK, YT and NT, E to NF and S to MI; Eurasia.

Global/Provincial Rank: G4 S2S3 Status: Blue



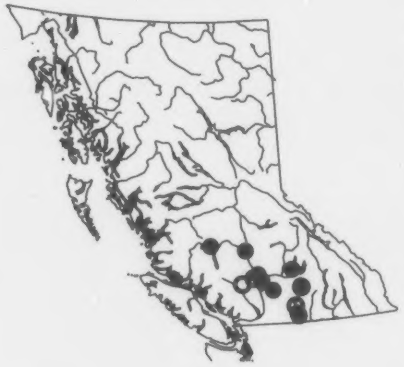


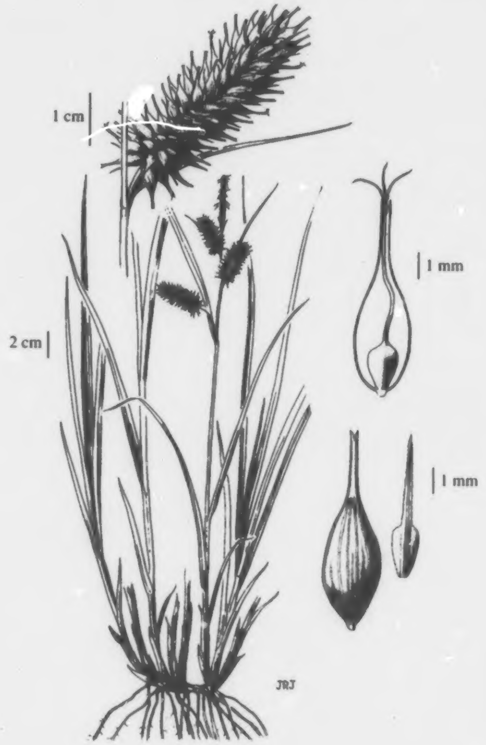
Carex hystricina **Schkuhr *ex* Willd.**

porcupine sedge

Habitat/Range: Swamps, shorelines and wet meadows in the steppe and montane zones (BGxh1, BGxh3, BGxw1, IDFww, IDFxh1, IDFxh1a, IDFxh2, MSxk, PPxh1, PPxh2, SBPSxc); rare in BC east of the Coast-Cascade Mountains and S of 52° N; E to NF and S to VA, TN, TX, NM, AZ and CA.

Global/Provincial Rank: G5 S2S3 Status: Blue



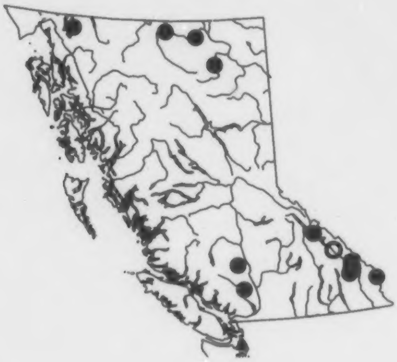


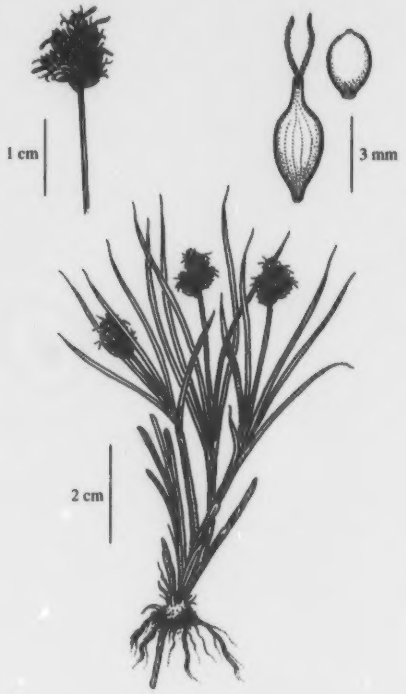
Carex incurviformis* Mack. var. *incurviformis
(*C. maritima auct. non* Gunn., *C. maritima* Gunn. var. *incurviformis* [Mack.] Boivin)

curved-spiked sedge

Habitat/Range: Mesic to dry meadows and rocky slopes in the alpine zone (AT); rare in SC, SE and N BC; N to AK, YT and NT, E to AB and S to MT and ID.

Global/Provincial Rank: G4T4T5 S2S3 Status: Blue



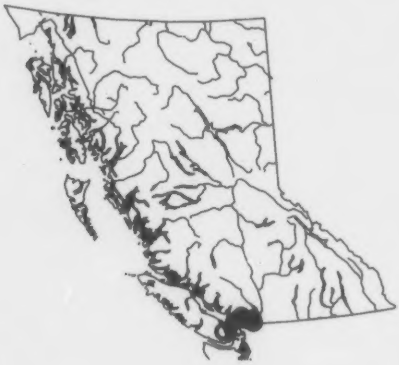


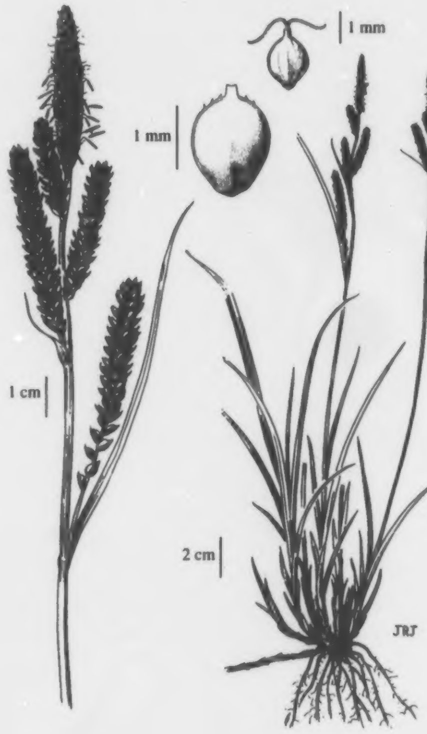
***Carex interrupta* Boeckl.**

green-fruited sedge

Habitat/Range: Streamsides and wet places in the lowland zone (CDFmm, CWHdm); rare in SW BC; S to S OR.

Global/Provincial Rank: G3G4 S1 Status: Red





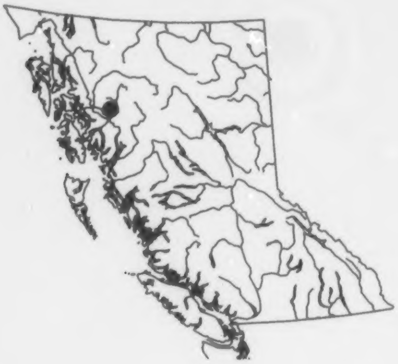
***Carex krausei* Boeckl.** (*C. capillaris* L. ssp. *krausei* [Boeckl.] Böcher)

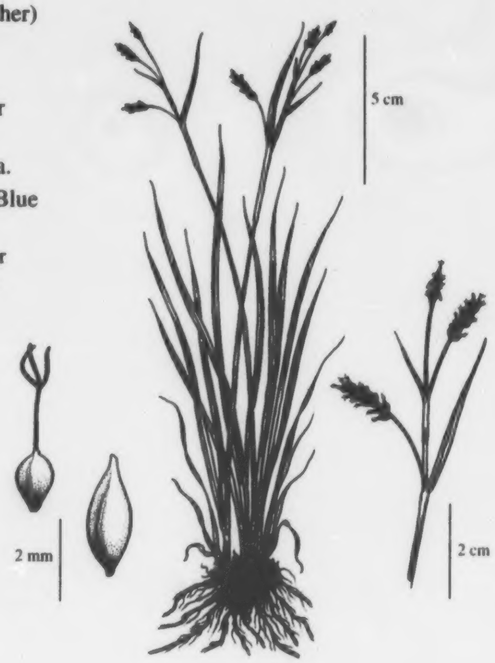
Krause's sedge

Habitat/Range: Wet gravel banks in the subalpine zone (ESSFwv); rare in NW BC, known only from Forrest Kerr Creek; disjunct circumpolar, N to AK, YT, and NT, and disjunct E to MB, ON and PQ; Greenland, Iceland, N Asia.

Global/Provincial Rank: G4 S2S3 Status: Blue

Notes: Most taxonomists have not separated this species from *C. capillaris* thus much of our material may still be listed under the latter species as we have yet to examine all BC collections of *C. capillaris*.



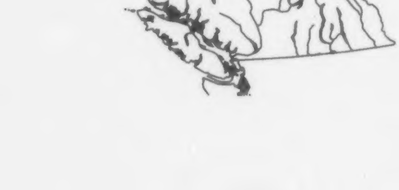


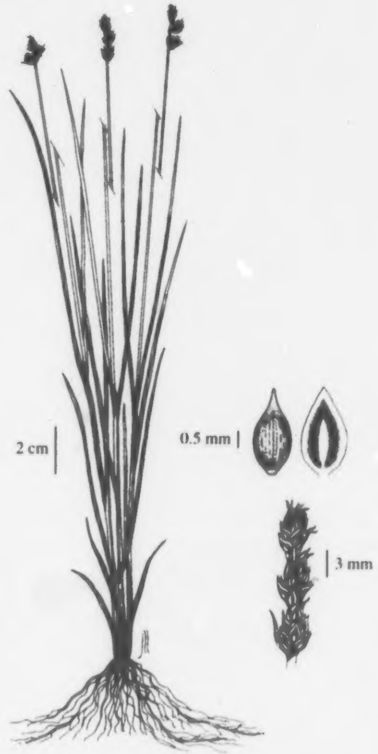
***Carex lapponica* O. F. Lang** (*C. canescens* L. var. *subloliacea* [Laest.] Hartman)

Lapland sedge

Habitat/Range: Wet peat bogs and open peat bog forests in the montane zone (BWBSmw2); rare in NE BC; circumpolar, N to AK and YT; Eurasia.

Global/Provincial Rank: G4G5Q S2S3 Status: Blue



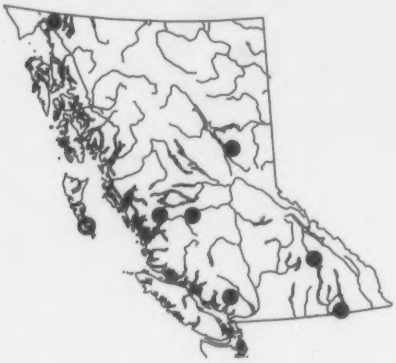


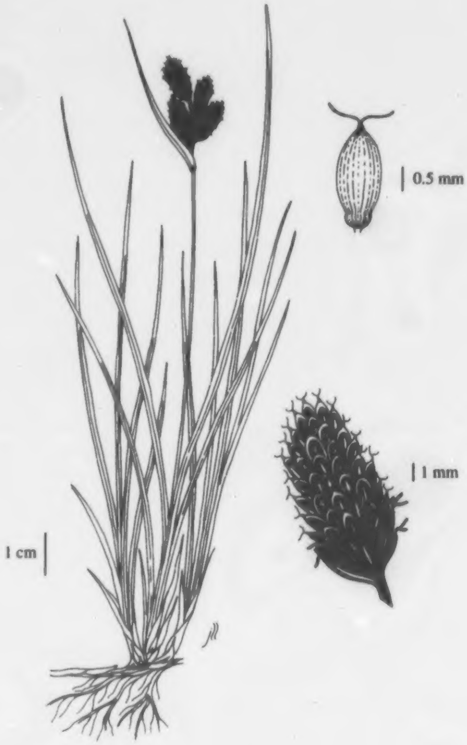
Carex lenticularis Michx. var. _dolia_ (M. E. Jones) L. A. Standley (*C. enanderi* Hult., *C. plectocarpa* F.J. Herm.)

Enander's sedge

Habitat/Range: Streamsides and ponds in the montane to alpine zones (ESSFmc, ESSFmk, ESSFvc, ESSFwk2, ESSFwv, ICHwc, MHmm2, SBPSmc); rare throughout BC; N to SE AK, E to SW AB and S to NW MT.

Global/Provincial Rank: G5T3Q S2S3 Status: Blue



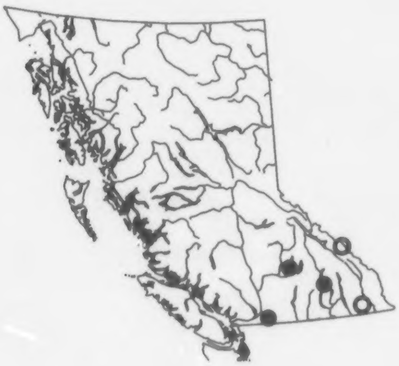


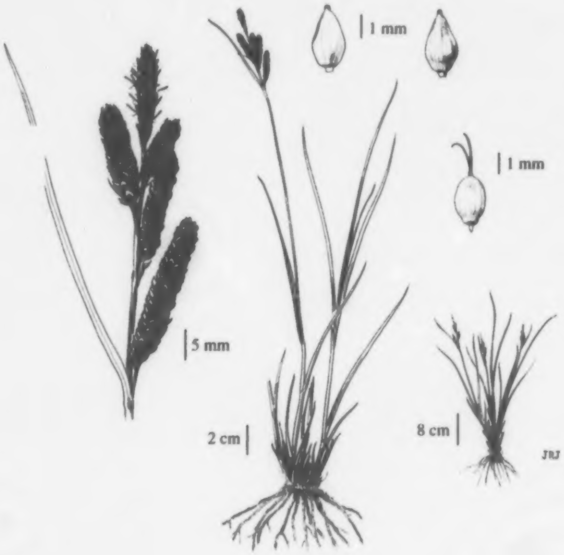
Carex lenticularis Michx. var. _lenticularis_
(*C. eurystachya* F.J. Herm.)

lakeshore sedge

Habitat/Range: Wet meadows, sandy beaches and marsh edges in the montane zone (CWHms1, ESSFdk, ICHmk1, ICHmw2, IDFmw2); rare in and E of the Coast-Cascade Mountains in S BC; N to NT, E to NF and S to MA, NY, MI, WI, MN, MT and ID.

Global/Provincial Rank: G5T5 S2 Status: Red



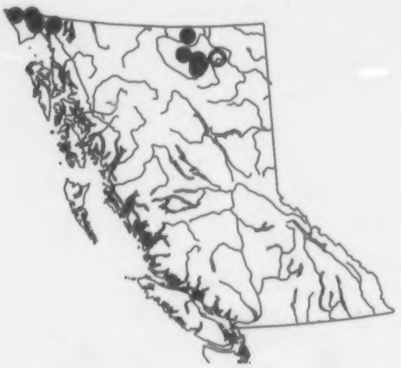


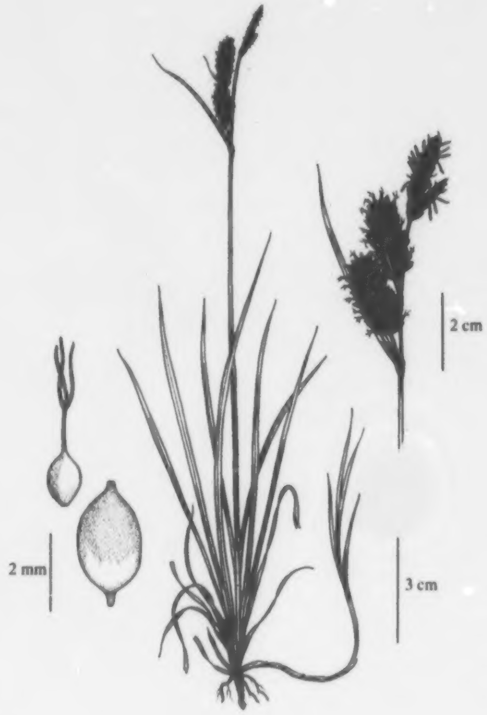
***Carex membranacea* Hook.**

fragile sedge

Habitat/Range: Bogs, shorelines and wet meadows in the montane and subalpine zones (AT, BWBSmw2, BWBSvk, SWBdk, SWBmk); rare in N BC; amphiberingian, N to AK, YT and NT and disjunctly E to PQ and Labr.; E Asia.

Global/Provincial Rank: G5 S2S3 Status: Blue



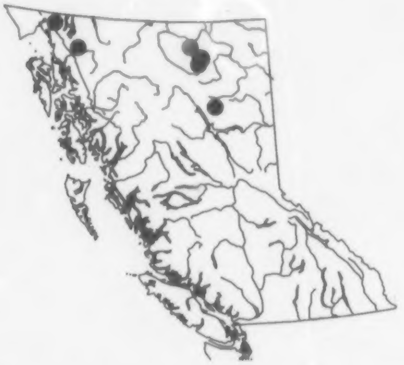


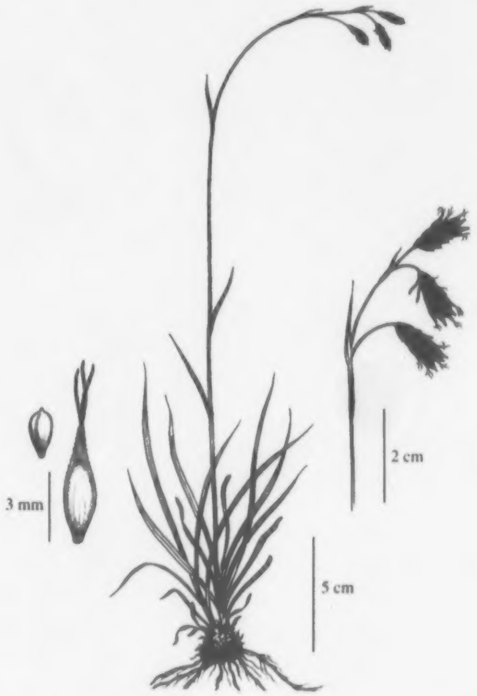
***Carex misandra* R. Br.** (*C. fuliginosa* Schkuhr ssp. *misandra* [R. Br.] Nyman)

short-leaved sedge

Habitat/Range: Dry meadows and rocky slopes in the alpine zone (AT); rare in N BC; circumpolar, N to AK, YT and NT, E to PQ and S to CO and UT; Greenland, N Eurasia.

Global/Provincial Rank: G5 S2S3 Status: Blue



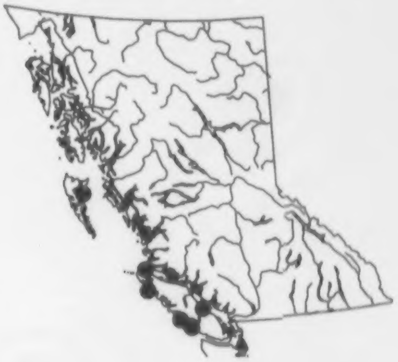


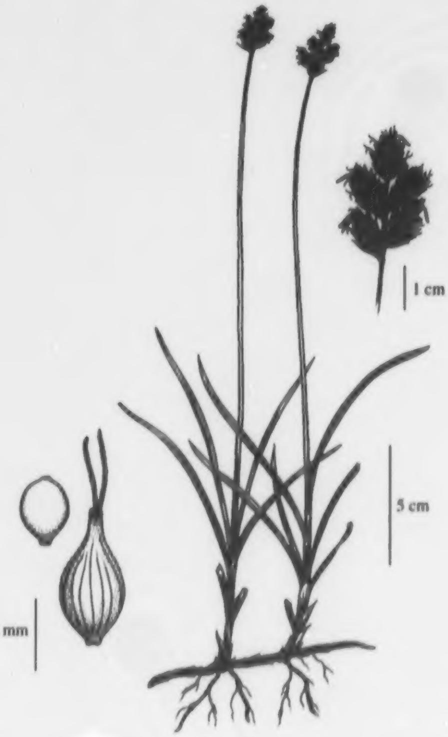
***Carex pansa* Bailey** (*C. arenicola auct. non* Schmidt, *C. arenicola* Schmidt ssp. *pansa* [Bailey] Koyama & Calder)

sand-dune sedge

Habitat/Range: Sandy beaches, dunes and rocky shores in the lowland zone (CWHvh1, CWHwh1); rare on the Queen Charlotte Islands and Vancouver Island; S to CA.

Global/Provincial Rank: G4 S2S3 Status: Blue



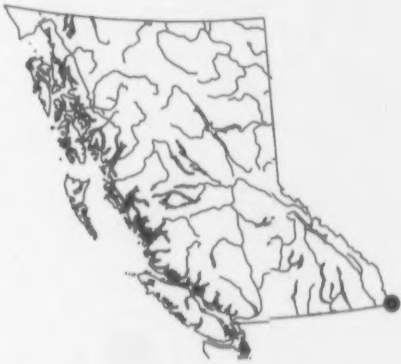


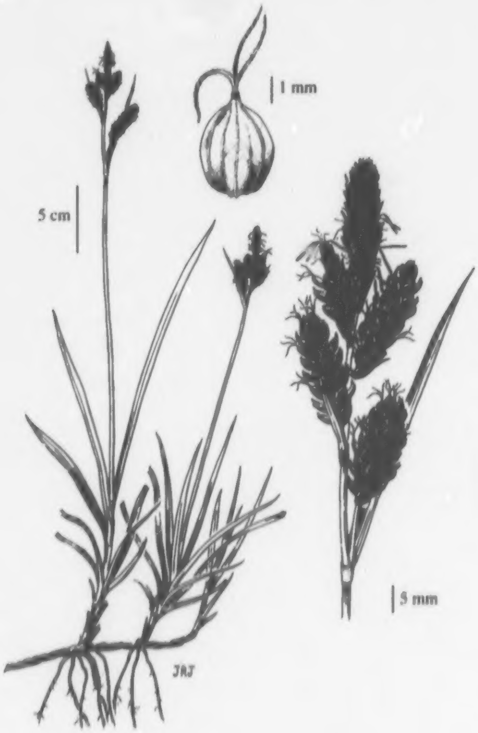
***Carex paysonis* Clokey**

Payson's sedge

Habitat/Range: Moist meadows and rocky slopes in the subalpine and alpine zones (AT, ESSFdkp); rare in extreme SE BC; E to SW AB and S to WY, UT, NV and E OR.

Global/Provincial Rank: G4 S2S3 Status: Blue



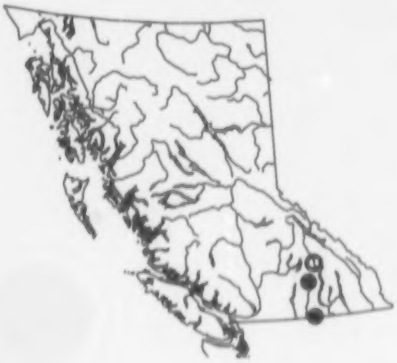


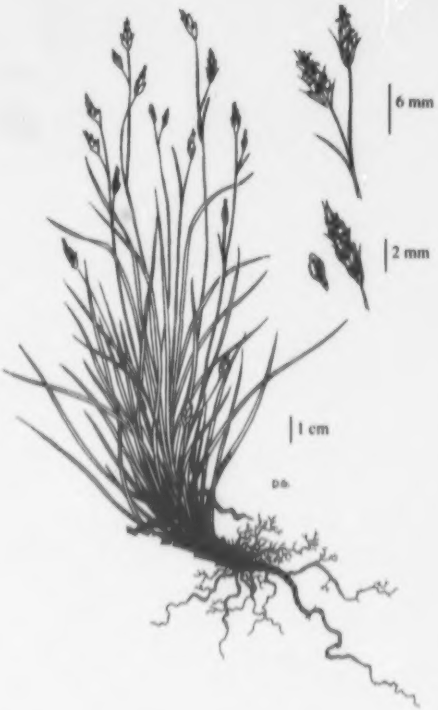
Carex pedunculata **Muhl. *ex* Willd.**

peduncled sedge

Habitat/Range: Mesic sites in the montane zone (ICHmw3, IDFmw1, PPdh1); rare in SE BC; E to NB and NF, and S to ME, MA, SC, AL, IL, IO and SD.

Global/Provincial Rank: G5 S2S3 Status: Blue



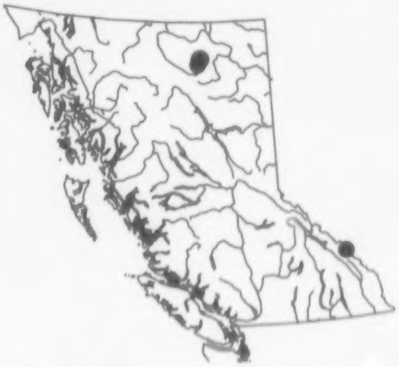


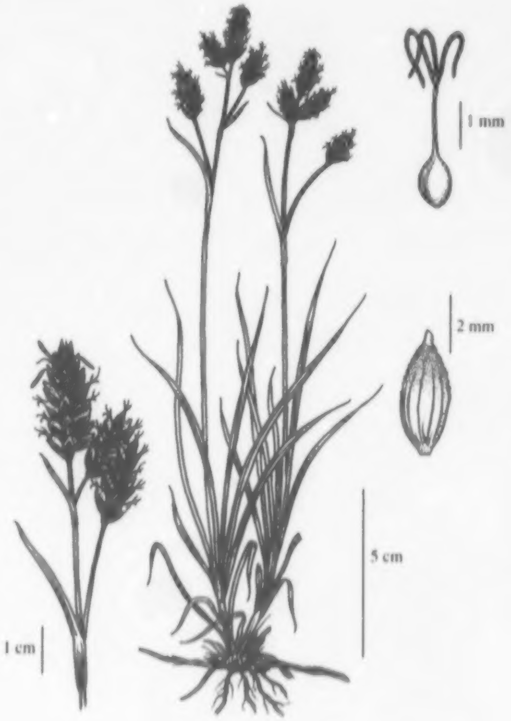
Carex petricosa **Dewey** (*C. franklinii* Boott)

rock-dwelling sedge

Habitat/Range: Dry gravelly slopes and rock outcrops in the alpine zone (AT); rare in NE and SE BC, known only from Summit Pass and Yoho National Park; N to AK, YT and NT, E to SW AB and S to MT.

Global/Provincial Rank: G4 S2S3 Status: Blue



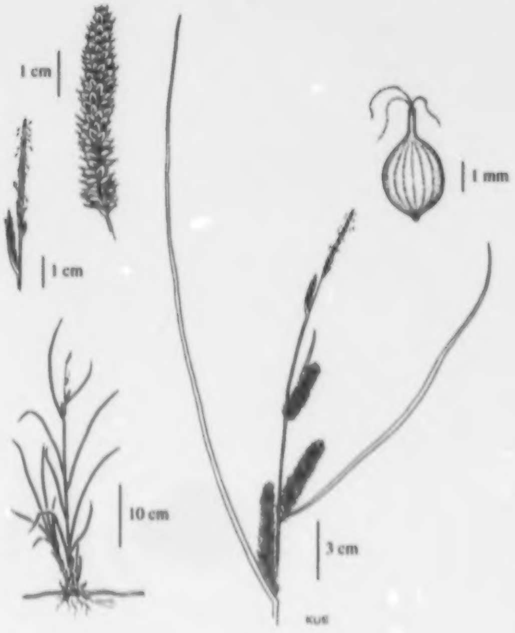


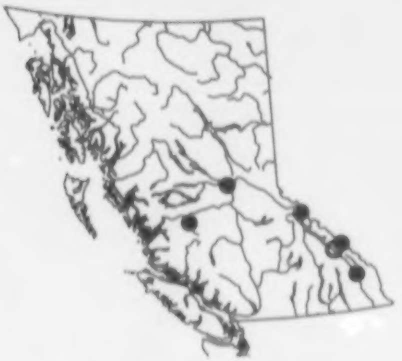
Carex rostrata **Stokes**

swollen beaked sedge

Habitat/Range: Bogs in the montane and subalpine zones (CWHvm, ESSFdk, IDFdm2, SBPSxc, SBSdw3); rare in BC east of the Coast-Cascade Mountains; circumpolar, N to AK, YT and NT, E to NF and S to MI, IL, MN, MT, ID and WA; Greenland, Iceland, Eurasia.

Global/Provincial Rank: G5 S2S3 Status: Blue



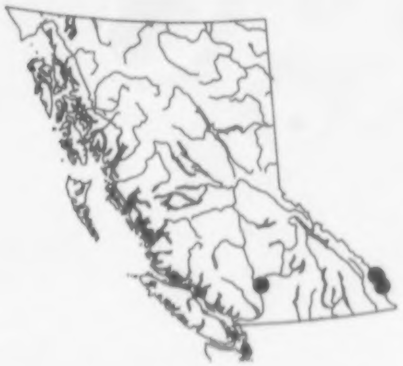


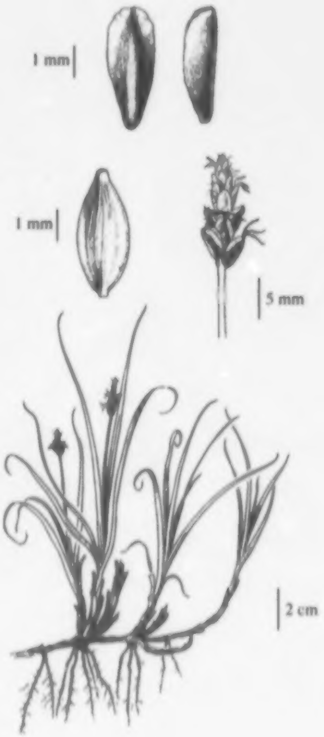
Carex rupestris **All. ssp.** ***drummondiana*** **(Dewey) Holub**

curly sedge; rock sedge

Habitat/Range: Dry rocky slopes, scree slopes and meadows in the alpine zone (AT); rare in SC and SE BC, E to SW AB and S to SD, NM and UT.

Global/Provincial Rank: G5T5 S2S3 Status: Blue



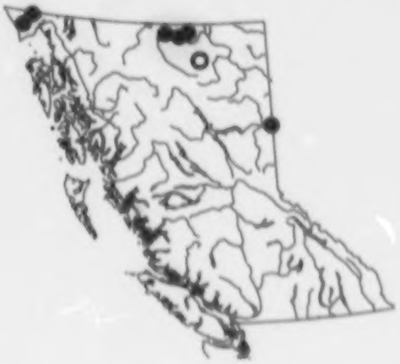


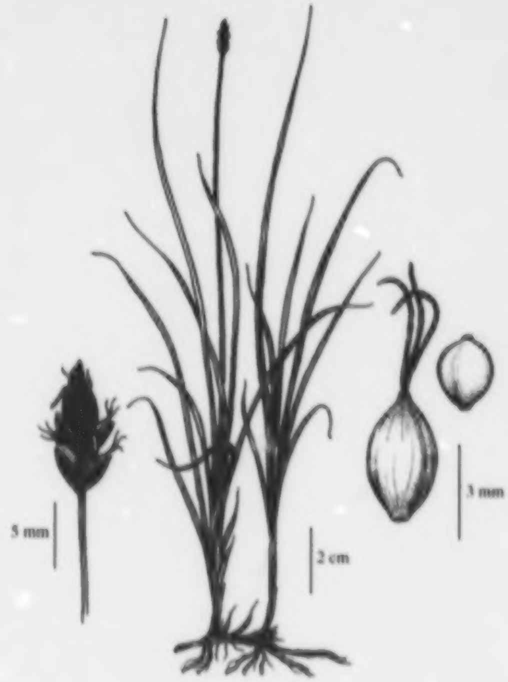
Carex rupestris* All. ssp. *rupestris

curly sedge; rock sedge

Habitat/Range: Dry rocky slopes, scree slopes and meadows in the alpine zone (AT); rare in N BC, circumpolar, N to AK, YT and NT, and E to NF; Greenland, Iceland, Eurasia.

Global/Provincial Rank: G5T? S2S3 Status: Blue





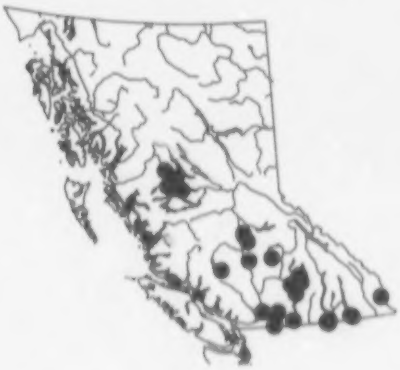
***Carex saximontana* Mack.** (*C. backii* W. Boott in Hook. var. *saximontana* [Mack.] Boivin.)

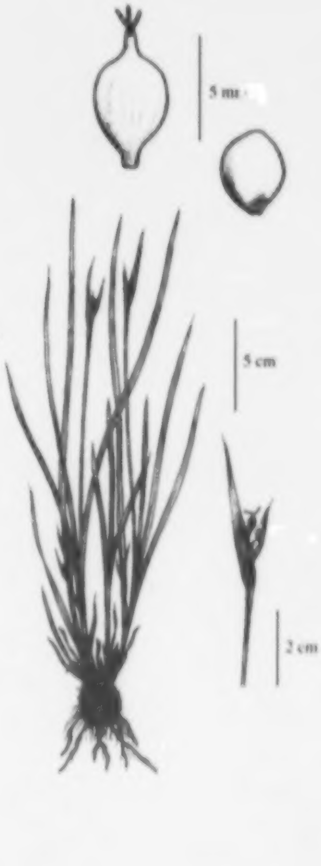
Rocky Mountain sedge

Habitat/Range:

Moist meadows in the montane and subalpine zones (BGxh1, BGxh3, BGxw2, CWHds, ESSFmw, ESSFxv, ICHdw, ICHxw, IDFdk3, IDFxh1, IDFxh2, IDFxm, MSdk, SBSdk, SBSdw2); rare in and E of the Coast-Cascade Mountains S of 55°N; E to PQ and NB and S to NY, UT and OR.

Global/Provincial Rank: G5 S3 Status: Blue



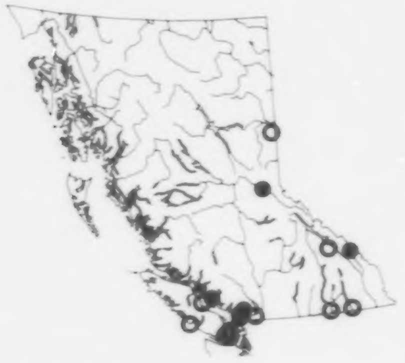


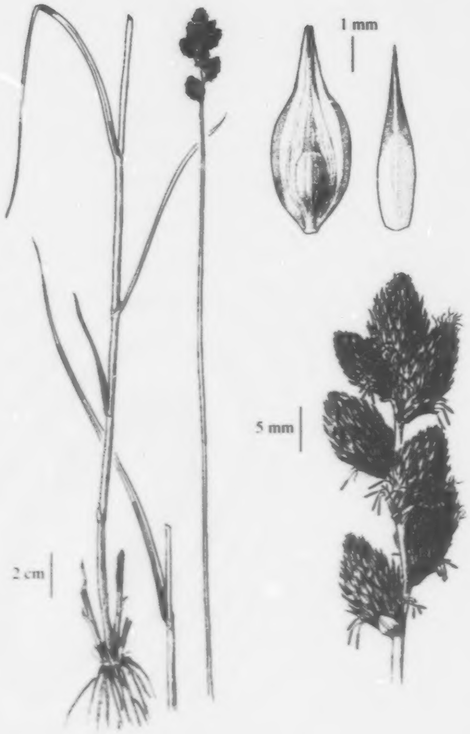
Carex scoparia Schkuhr *ex* Willd.

pointed broom sedge

Habitat/Range: Moist to wet sites in the lowland and montane zones (BWBSmw1, CDFmm, CWHdm, CWHvh1, CWHxm1, ICHdw, ICHwk1, ICHxw, SBSvk); rare in S, EC and NE BC; E to NF and S to ME, MA, NC, GA, AL, MS, LO, OK, NM, AZ and CA.

Global/Provincial Rank: G5 S2S3 Status: Blue



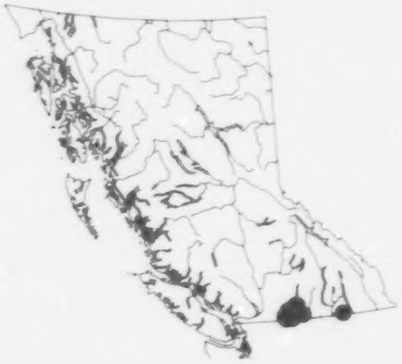


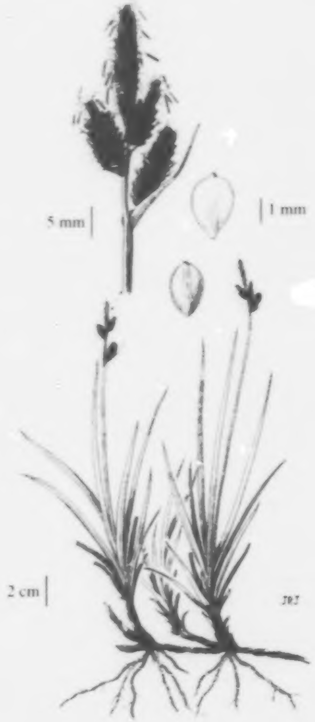
Carex scopulorum Holm var. *bracteosa* (Bailey) F.J. Herm. (*C. campylocarpa* Holm, *C. gymnoclada* Holm)

Holm's Rocky Mountain sedge

Habitat/Range: Shorelines, streambanks and wet to moist meadows in the montane to alpine zones (AT, BGxh1, ESSFdcp1, ESSFwc4, ESSFxc, ESSFxcp, IDFxh1); rare in SC BC, N to AK and YT, E to SW AB and S to CO, AZ and CA.

Global/Provincial Rank: G5T? S2S3 Status: Blue



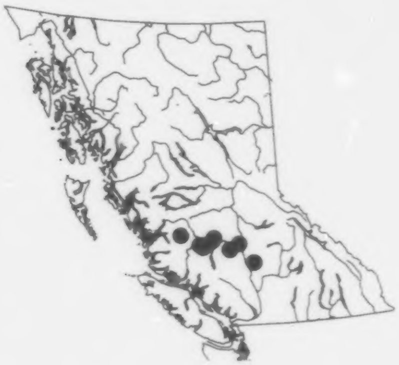


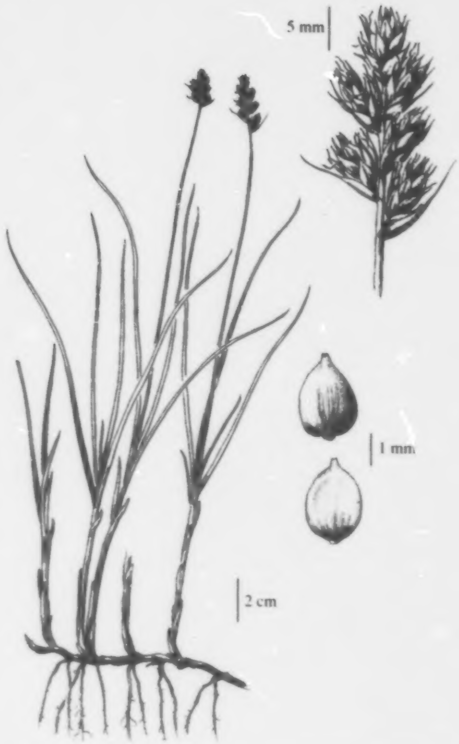
Carex simulata **Mack.**

short-beaked sedge

Habitat/Range: Wet, often calcareous fens in the montane zone (IDFdk3, IDFdk4, IDFxm, SBPSxc); rare in SC BC (Chilcotin-Cariboo region); E to SK and S to ND, NM, UT, NV and CA.

Global/Provincial Rank: G5 S2S3 Status: Blue



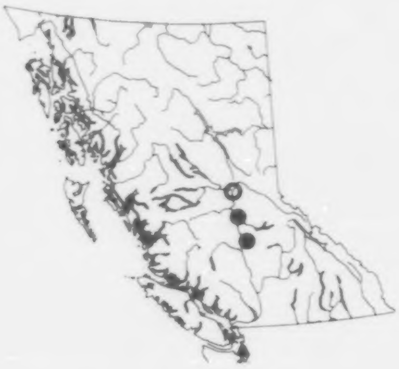


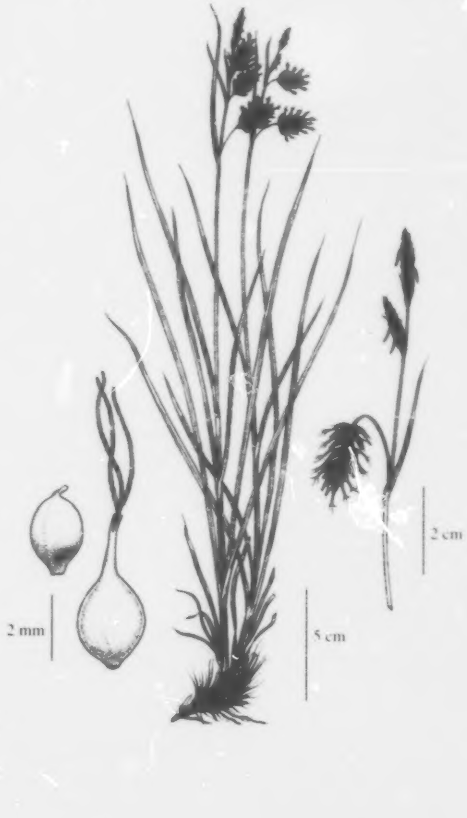
Carex sprengelii **Dewey *ex* Spreng.**

Sprengel's sedge

Habitat/Range: Moist to wet gravelly or sandy slopes, alluvial woodlands and open sites in the montane zone (IDFxm, SBSmh); rare in EC BC; E to PQ and NB and S to ME, MA, PA, OH, IN, IL, MO, NE and CO.

Global/Provincial Rank: G5? S1 Status: Red



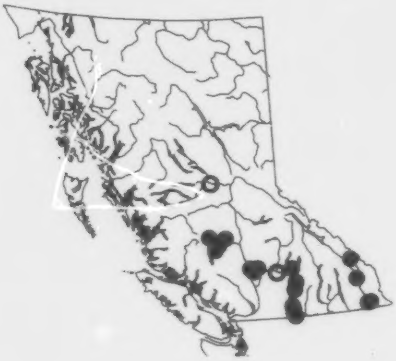


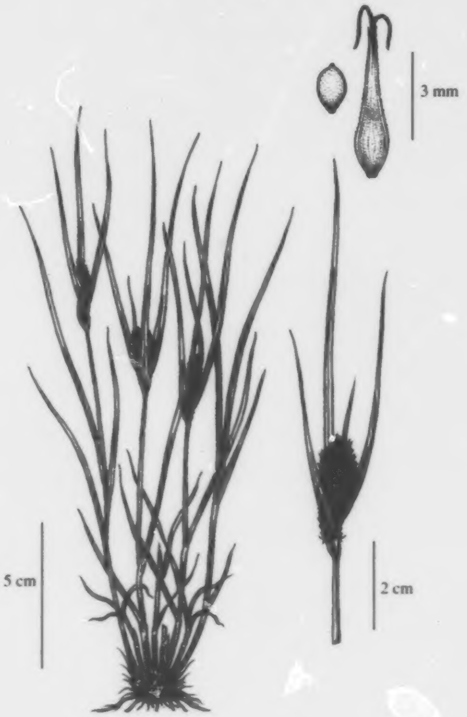
Carex sychnocephala **Carey**

many-headed sedge

Habitat/Range: Shorelines and wet to moist meadows in the steppe and montane zones (BGxh1, BGxh2, BGxw1, IDFdk1, IDFdk4, IDFdm2, IDFmw2, IDFxh1, IDFxh2, IDFxm, MSdk, PPxh1, SBPSxc, SBSdk); rare in SC BC; N to S YT and S NT, E to S PQ and S to MI, WI, MO, SD, CO and N WA.

Global/Provincial Rank: G4 S3 Status: Blue



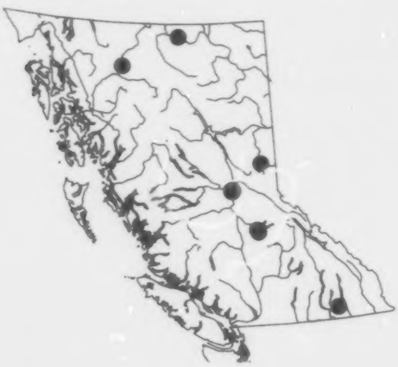


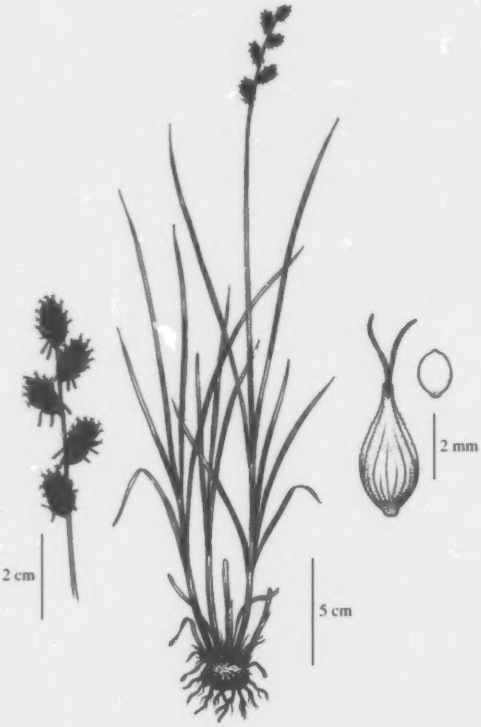
Carex tenera **Dewey**

tender sedge

Habitat/Range: Mesic to dry meadows, shorelines and open forests in the montane zone (ESSFmv2, ICHmk3, ICHwk2, SBSmh); rare in S, EC and NW BC; E to PQ, NB and NS and S to ME, MA, NC, GA, AL, AR, NE, and NM.

Global/Provincial Rank: G5 S2S3 Status: Blue



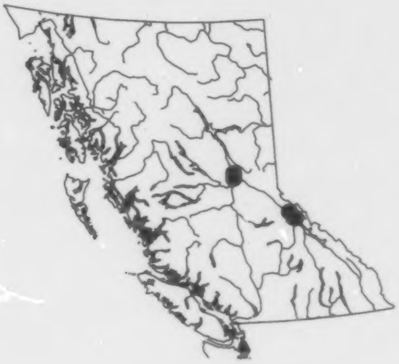


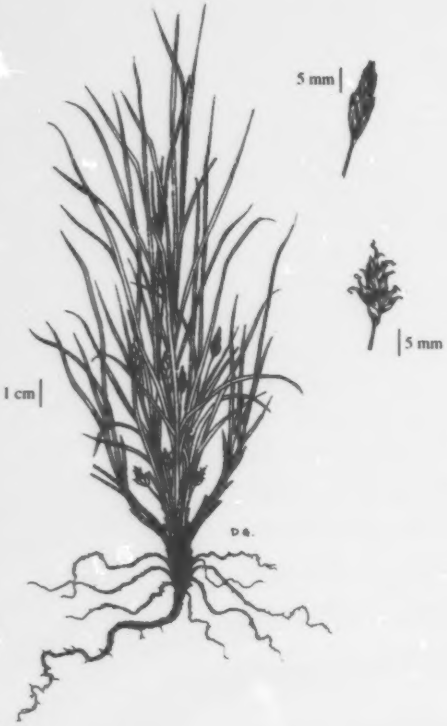
Carex tonsa* (Fern.) Bickn. var. *tonsa (*C. rugosperma* Mack. var. *tonsa* [Fern.] Voss, *C. umbellata* Schkuhr *ex* Willd. var. *tonsa* Fern.)

bald sedge

Habitat/Range: Sand dunes in the montane zone (ICHmm, SBSdh1, SBSdw1, SBSmk1); rare in EC BC, E to NF, and S to ME, MA, VA, SC, GA, IN, IL and MO.

Global/Provincial Rank: G4G5T? S2S3 Status: Blue



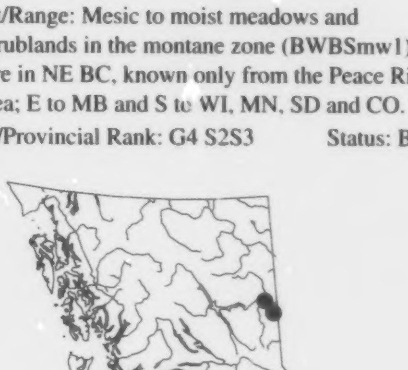


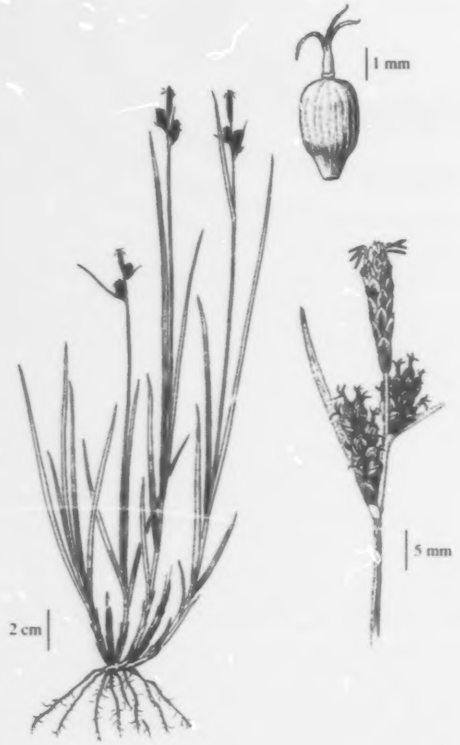
***Carex torreyi* Tuckerm.**

Torrey's sedge

Habitat/Range: Mesic to moist meadows and shrublands in the montane zone (BWBSmw1); rare in NE BC, known only from the Peace River area; E to MB and S to WI, MN, SD and CO.

Global/Provincial Rank: G4 S2S3 Status: Blue



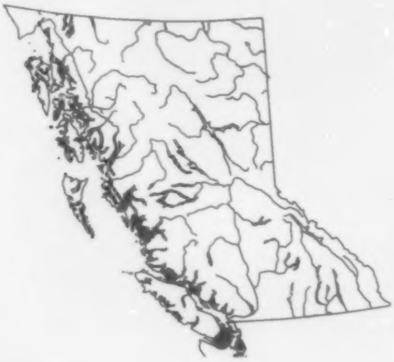


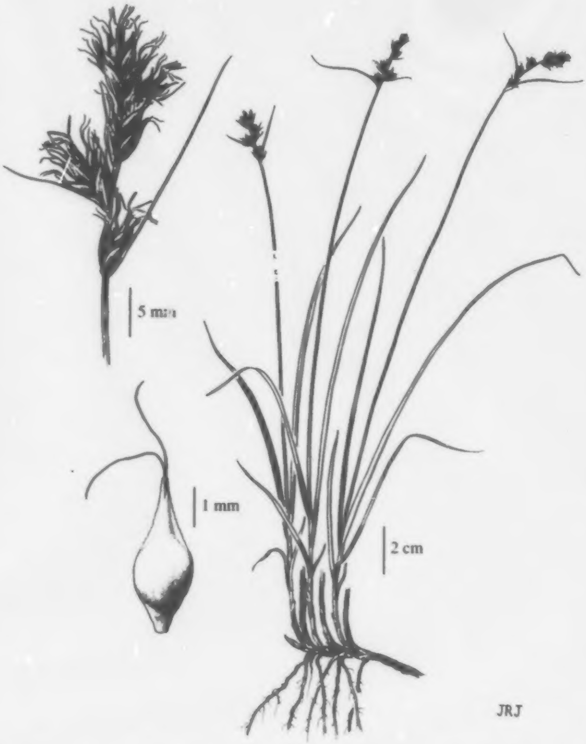
Carex tumulicola **Mack.**

foothill sedge

Habitat/Range: Open *Quercus garryana* stands and coastal, dry grassy meadows in the lowland zone (CDFmm); rare in SW BC, known only from southern Vancouver Island; S to CA.

Global/Provincial Rank: G4 S1 Status: Red



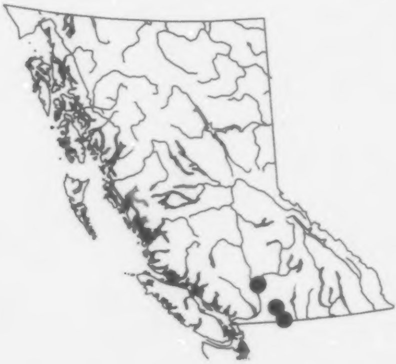


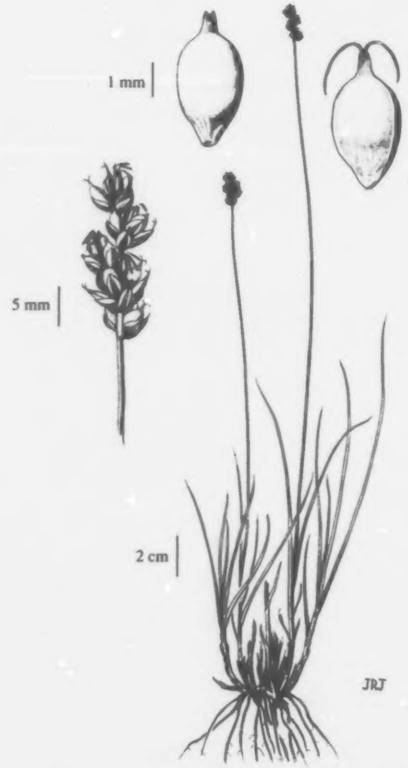
Carex vallicola **Dewey var.** ***vallicola***

valley sedge

Habitat/Range: Moist to dry meadows, open forests and shrublands in the montane zones (ESSFxc, IDFxh1, MSdm2); rare in SC BC; S to CO, UT, NV and CA.

Global/Provincial Rank: G5T? S1 Status: Red



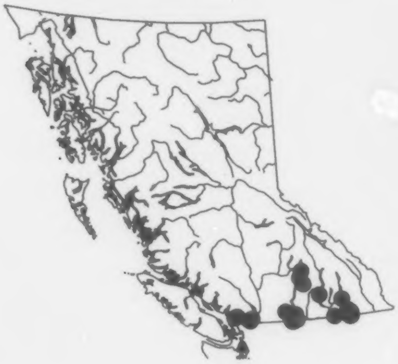


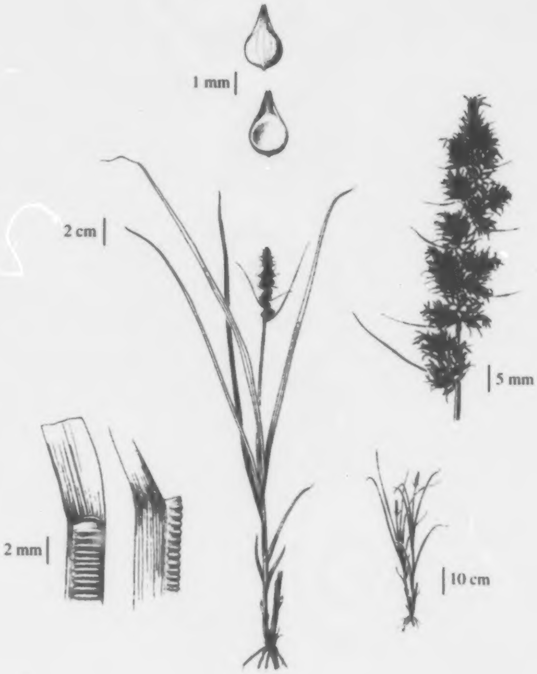
Carex vulpinoidea Michx.

fox sedge

Habitat/Range: Wet meadows, swamps, marshes, and streambanks in the lowland, steppe and montane zones (BGxh1, CWHdm, CWHxm1, ICHmw2, ICHxw, IDFmw1, IDFxh1); rare in S BC; E to NF and S to ME, MA, PA, NC, FL, MS, TX, NM, AZ and CA.

Global/Provincial Rank: G5 S2S3 Status: Blue



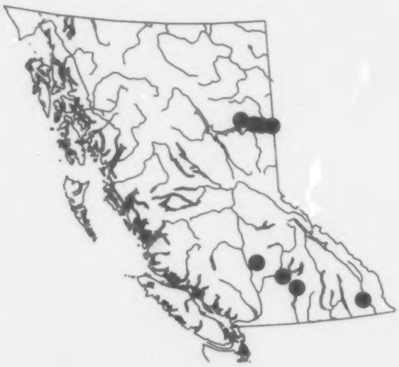


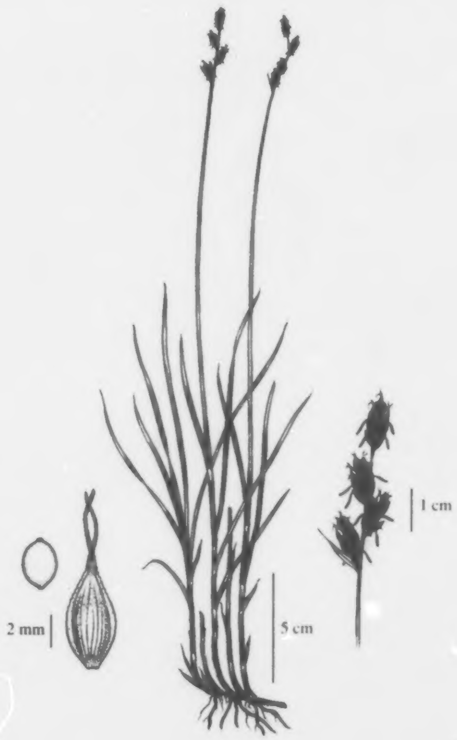
Carex xerantica Bailey

dry-land sedge

Habitat/Range: Dry slopes and open forests in the steppe and montane zones (BGxh3, BWBSmw1, ICHwk2, IDFdm2, IDFxh1, IDFxm, IDFxw, MSxk, MSxv, SBPSxc); rare in S and NE BC; E to S MB and S to MN and NE.

Global/Provincial Rank: G5 S2S3 Status: Blue



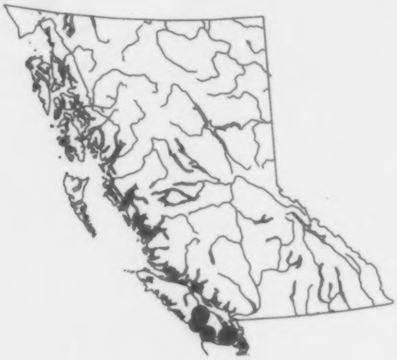


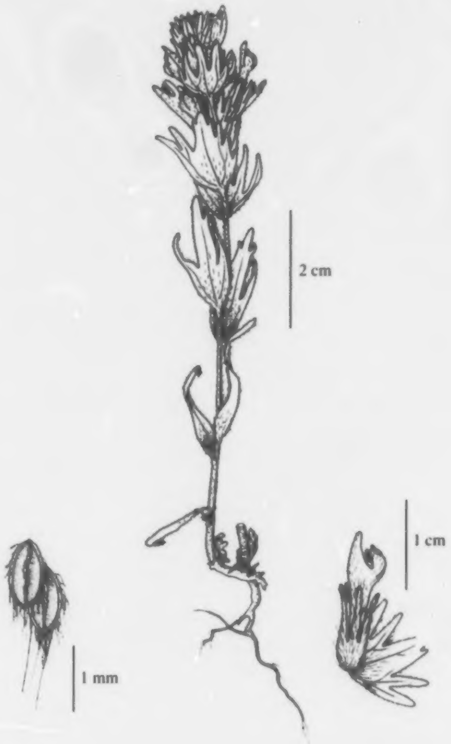
Castilleja ambigua **(Benth.) Chuang & Heckard ssp. *ambigua*** (*Orthocarpus castillejoides* Benth.)

paintbrush owl-clover

Habitat/Range: Moist to wet tidal marshes or open grassy brackish sites in the lowland zone (CDFmm, CWHvh1, CWHxm2); rare on S Vancouver Island; S to CA.

Global/Provincial Rank: G4T? S2 Status: Red



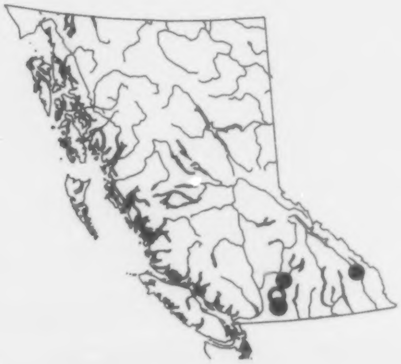


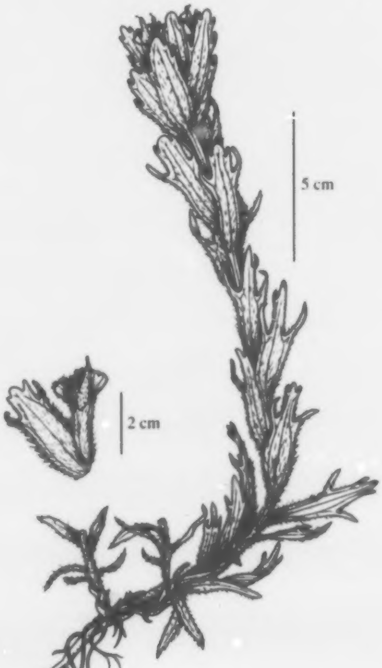
Castilleja cusickii **Greenm.**

Cusick's paintbrush

Habitat/Range: Mesic meadows in the montane zone (IDFdk1, IDFun, IDFxh1); rare in SC and SE BC; E to SW AB and S to W WY, ID, NV and NE OR.

Global/Provincial Rank: G4G5 S1 Status: Red



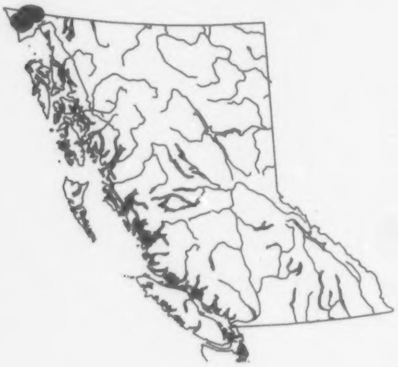


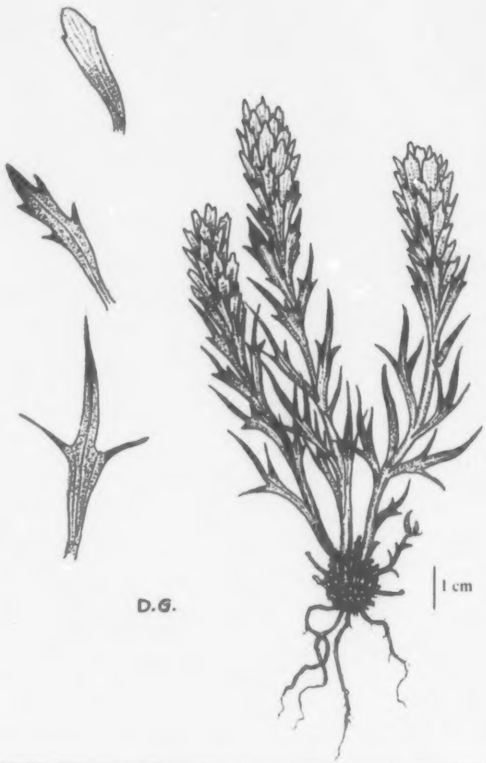
Castilleja hyperborea **Pennell** (*C. villosissima* Pennell)

northern paintbrush; northern Indian-paintbrush

Habitat/Range: Moist to mesic tundra and stony slopes and ridges in the subalpine and alpine zones (AT, SWBdk, SWBvk); rare in extreme NW BC; amphiberingian, N to AK, YT and NT; NE Siberia.

Global/Provincial Rank: G4 S2S3 Status: Blue





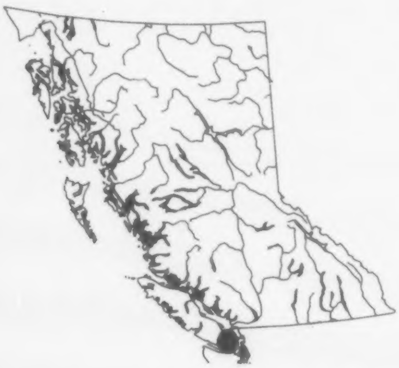
Castilleja levisecta **Greenm.**

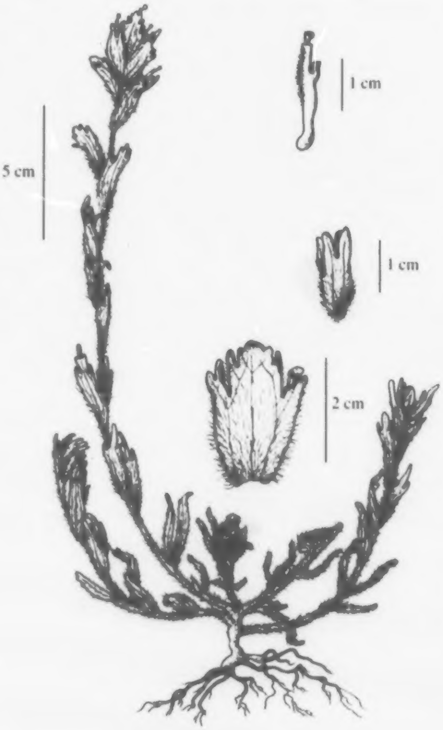
golden paintbrush; golden Indian-paintbrush

Habitat/Range: Dry to mesic, grassy meadows in the lowland zone (CDFmm); rare in SW BC, known recently from only Alpha Islet and Trial Island; S to OR.

Global/Provincial Rank: G1 S1 Status: Red

Notes: This species in presently known from only 11 extant sites in BC and WA. Since most of these sites are imperiled, the G rank has been maintained as G1. For colour illustration see Clark (1976).



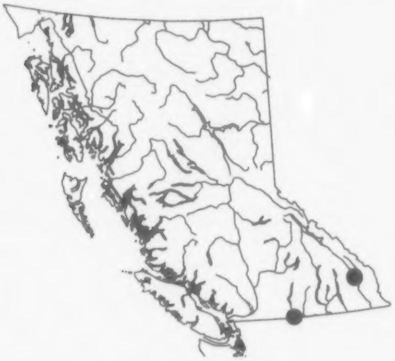


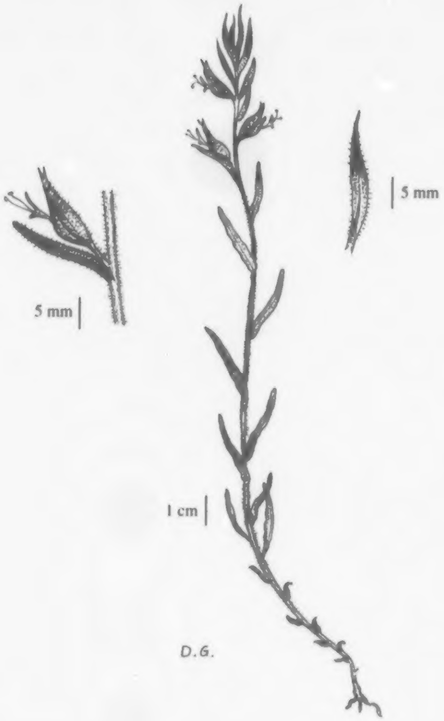
Castilleja minor **(A. Gray) A. Gray ssp.** ***minor*** (*C. exilis* A. Nels.)

annual paintbrush

Habitat/Range: Alkaline marshes, wet meadows and gravelly seepage areas in the steppe and lower montane zones (BGxh1, IDFdm2); rare in SC and SE BC; S to NM, AZ and NV.

Global/Provincial Rank: G5T5 S1 Status: Red





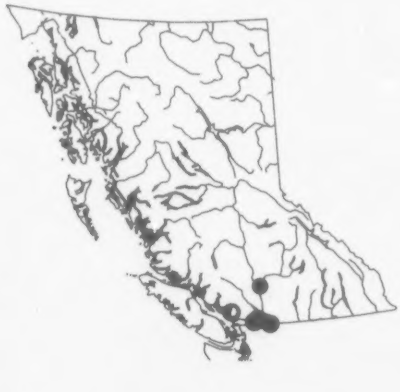
Castilleja rupicola **Piper**

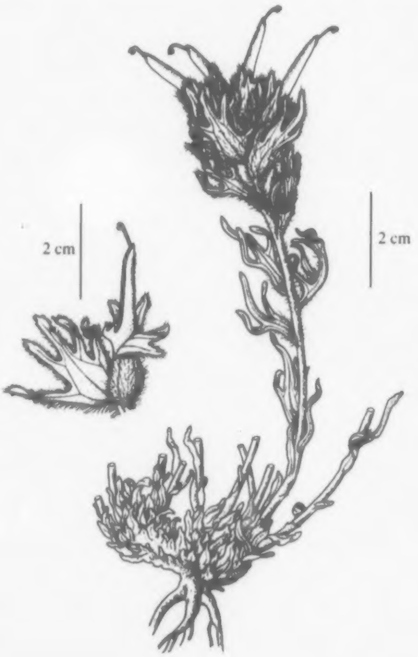
cliff paintbrush

Habitat/Range: Dry to mesic cliffs and rocky slopes from the upper montane to alpine zones (AT, IDFww, MHmm1, MSdm2); rare in the Cascade Mountains in BC; S to OR.

Global/Provincial Rank: G2G3 S2 Status: Red

Notes: For colour illustration see Taylor and Douglas (1995).





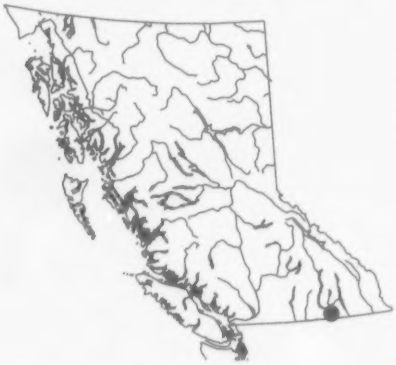
Castilleja tenuis (Heller) Chuang & Heckard
(*Orthocarpus hispidus* Benth.)

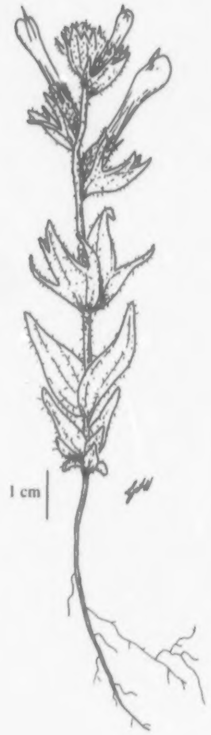
hairy owl-clover

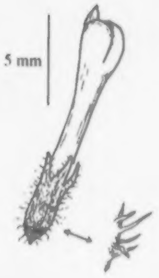
Habitat/Range: Moist meadows and vernal pools in the montane zone (ICHdw); rare in SE BC, known only from the Salmo area; S to ID, NV and CA.

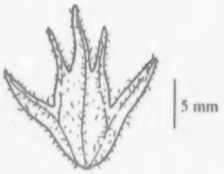
Global/Provincial Rank: G5 S1 Status: Red

Notes: Recent reidentifications of herbaria collections of *C. tenuis* revealed that no vouchers were available for the species in BC. The first BC voucher for this species was collected in 2000 by F. Lomer at Salmo.







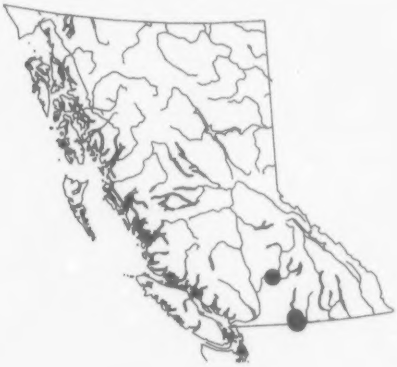


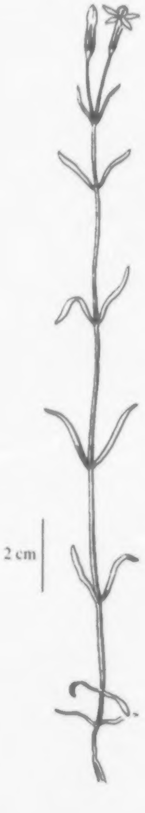
Centaurium exaltatum (Griseb.) Wight *ex* Piper

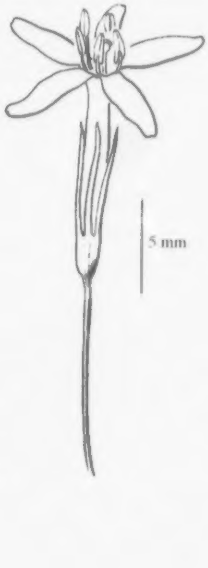
western centaury

Habitat/Range: Moist saline meadows in the steppe zone (BGxh1, BGxh2); rare in SC BC, known only from the Osoyoos area and Kamloops Lake; E to NB and S to UT, NV, AZ and CA.

Global/Provincial Rank: G5 S1 Status: Red







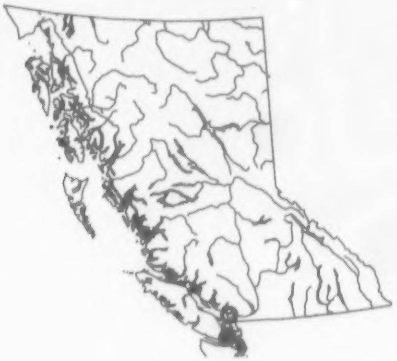
Centaurium muehlenbergii (Griseb.) Wight *ex* Piper

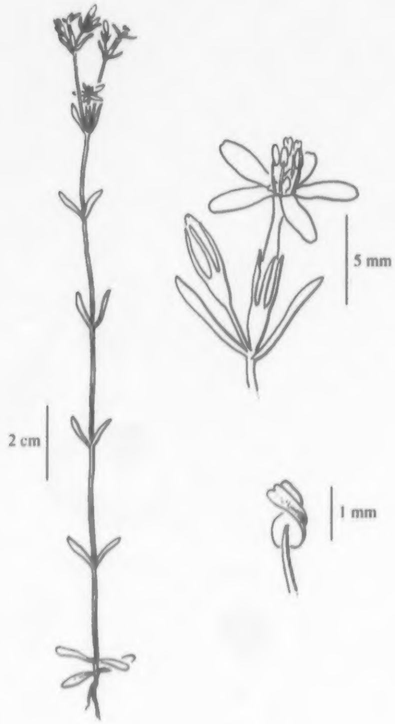
(*C. curvistamineum* [Wittr.] Abrams)

Muhlenberg's centaury

Habitat/Range: Moist meadows in the lowland zone (CDFmm, CWHdm); rare in SW BC, known only from SE Vancouver Island and Chatham Island; S to NV and CA.

Global/Provincial Rank: G5? S1 Status: Red





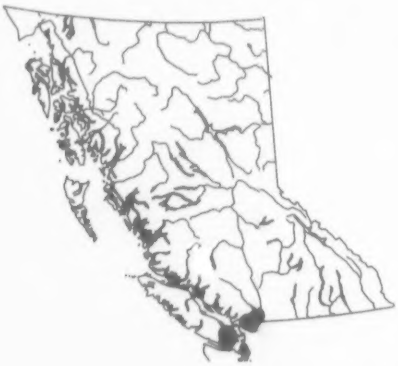
Cephalanthera austiniae (A. Gray) Heller (*Eburophyton austiniae* [A. Gray] Heller)

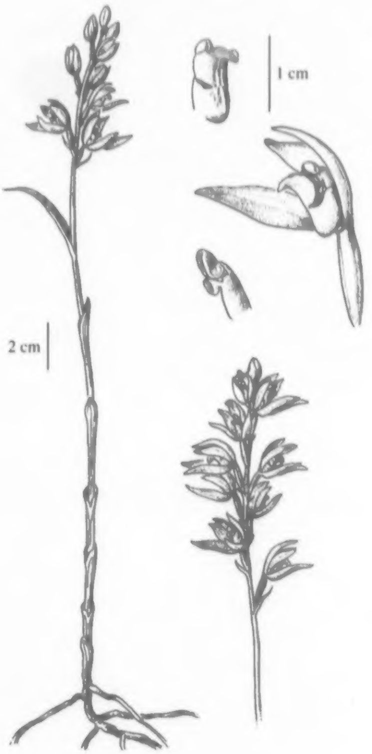
phantom orchid

Habitat/Range: Moist to mesic forests in the lowland zone (CDFmm, CWHdm, CWHxm1, CWHxm2); rare in the lower Fraser Valley, SE Vancouver Island and the Gulf Islands; S to ID and CA.

Global/Provincial Rank: G4 S2 Status: Red

Notes: For colour illustration see Williams and Williams (1983).



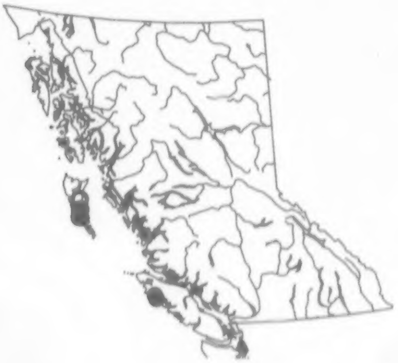


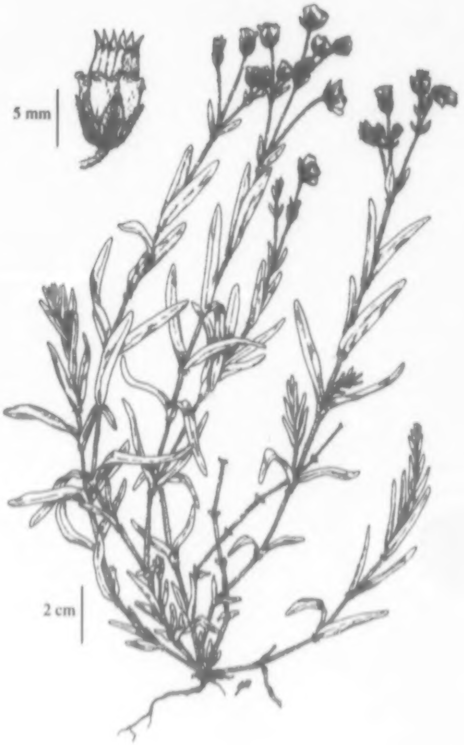
Cerastium fischerianum **Ser.**

Fischer's chickweed

Habitat/Range: Mesic gravelly shores and open slopes in the lowland to alpine zones (AT, CWHvh1, CWHwh1, MHwh); rare in SW BC, known from N Vancouver Island and the Queen Charlotte Islands; amphiberingian, N to AK; E Asia.

Global/Provincial Rank: G4 S2S3 Status: Blue



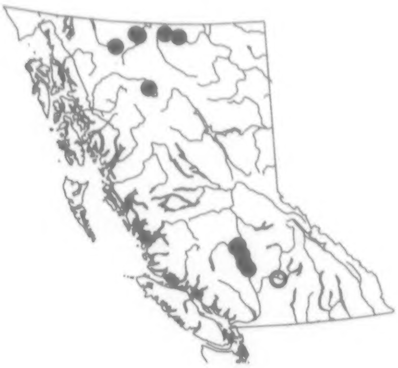


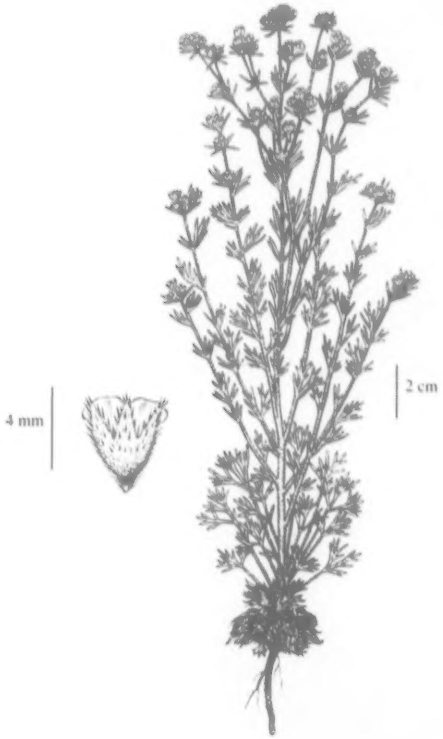
Chamaerhodos erecta **(L.) Bunge ssp.** ***nuttallii*** **(Pickering** ***ex*** **Rydb.) Hult.** (*C. erecta* var. *parviflora* [Nutt.] C.L. Hitchc., *C. nuttallii* Pickering *ex* Rydb.)

American chamaerhodos

Habitat/Range: Dry, open, sandy or gravelly hillsides, rock outcrops and terraces in the steppe and montane zones (BGxh2, BGxh3, BWBSdk1, BWBSdk2, IDFdk4, IDFxm, SWBun); rare in BC east of the Coast-Cascade Mountains; amphiberingian, N to YT and S to MN, MI, ND, UT and CO; Asia.

Global/Provincial Rank: G5T5 S2S3 Status: Blue



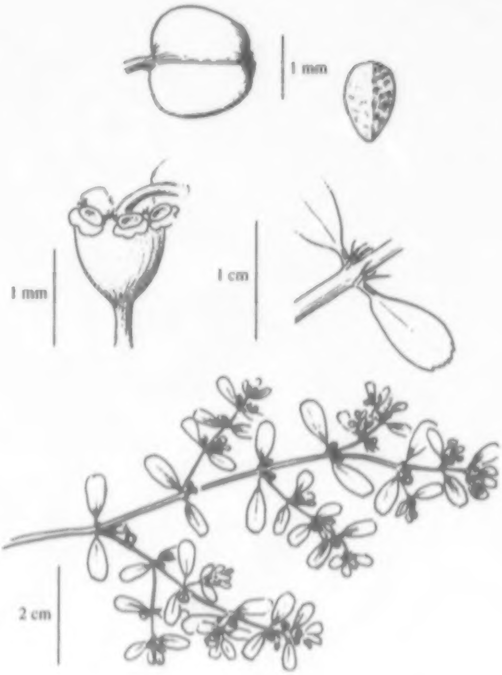


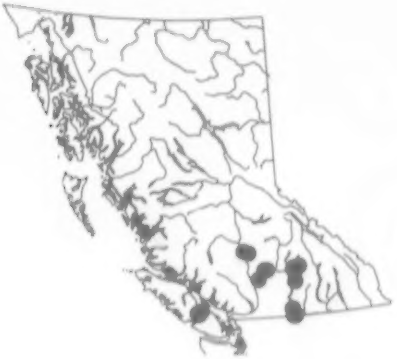
Chamaesyce serpyllifolia **(Pers.) Small ssp. *serpyllifolia***
(*Euphorbia serpyllifolia* Pers.)

thyme-leaved spurge

Habitat/Range: Dry, sandy or gravelly sites in the lowland and steppe zones (BGxh1, BGxh2, BGxw2, CDFmm, CWHxm2, IDFxh1a); rare on S Vancouver Island and in SC BC; E to MB and S to MO, TX, NM, CA and MX.

Global/Provincial Rank: G5T5 S2S3 Status: Blue



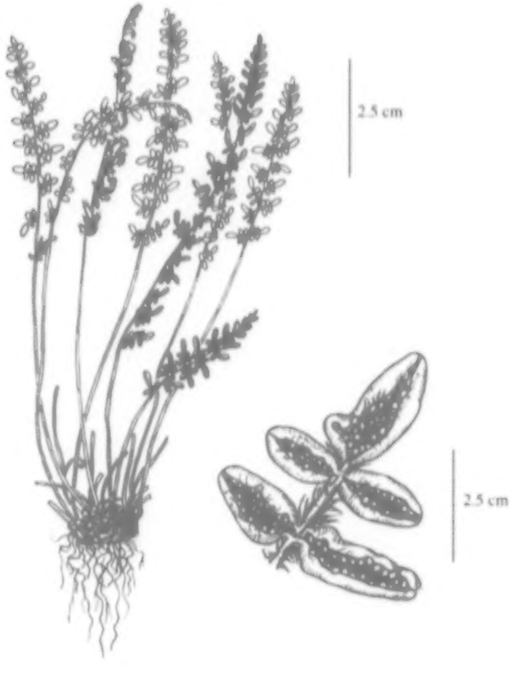


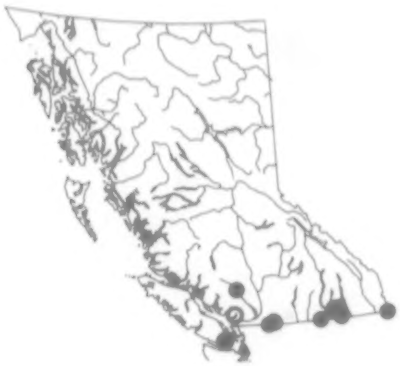
Cheilanthes gracillima **D.C. Eaton**

lace fern

Habitat/Range: Dry rocks and rock crevices in the lowland and montane zones (CDFmm, CWHds1, ESSFmw, ESSFwc4, IDFww, MHmm1, MSdk, MSdm2); rare in S BC; S to MT, UT, NV and CA.

Global/Provincial Rank: G4G5 S2S3 Status: Blue



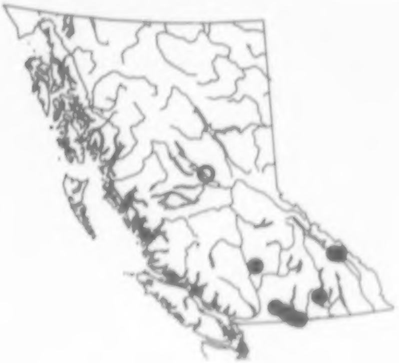


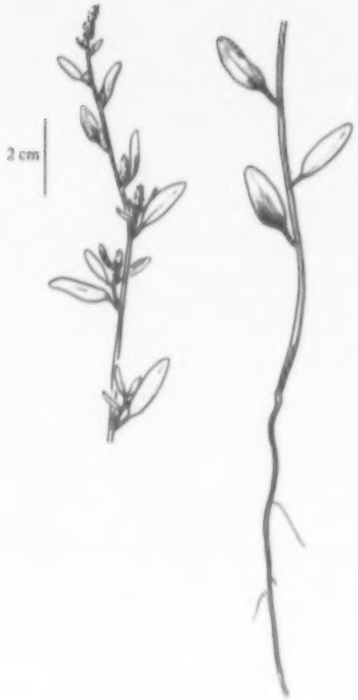
***Chenopodium atrovirens* Rydb.** (*C. fremontii* S. Wats. var. *atrovirens* [Rydb.] Fosburg)

dark lamb's-quarters

Habitat/Range: Dry waste places in the montane zone (ICHmk1, IDFdm2, IDFxh1, IDFxw, MSxk, SBSdw3); rare, scattered throughout BC east of the Coast-Cascade Mountains S of 55°N; E to AB and S to IA, CO, NV and CA.

Global/Provincial Rank: G5 S1 Status: Red





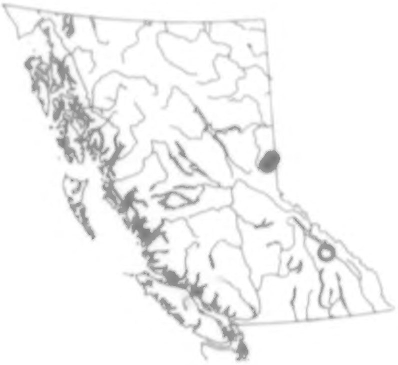
***Chrysosplenium iowense* Rydb.** (*C. alternifolium* L. var. *iowense* [Rydb.] Boivin)

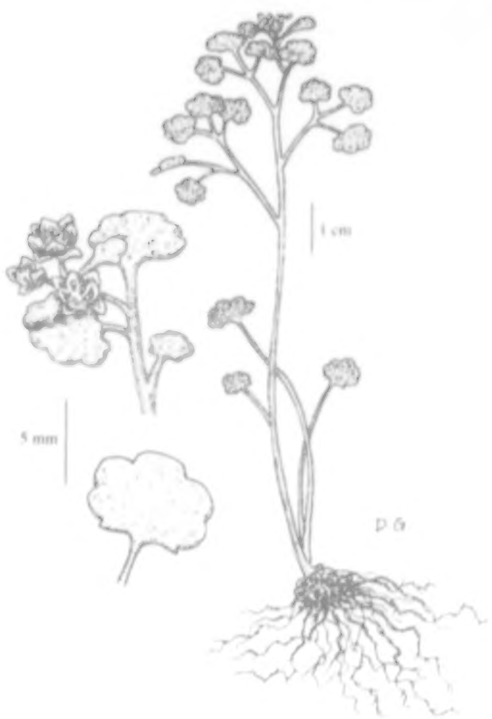
Iowa golden-saxifrage; Iowa golden carpet

Habitat/Range: Wet to moist streambanks and marshy ground in the montane zone (BWBSmw1); rare in NE BC, known recently only from the Little Prairie Lakes and Wapiti river; N to SW NT and E to SW MB, disjunct in NE IA.

Global/Provincial Rank: G3G4 S2S[illegible] Status: Blue

Notes: After an absence of 64 years, this species was re-collected in 2001 by both J. Fenneman and F.L. Lomer, separately, in the Peace River area, at Little Prairie Lakes and Wapiti River, respectively.





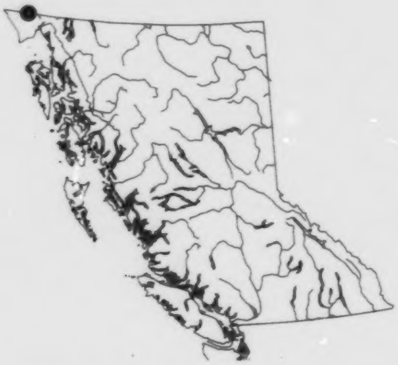
Chrysosplenium wrightii **Franch. & Savigny**

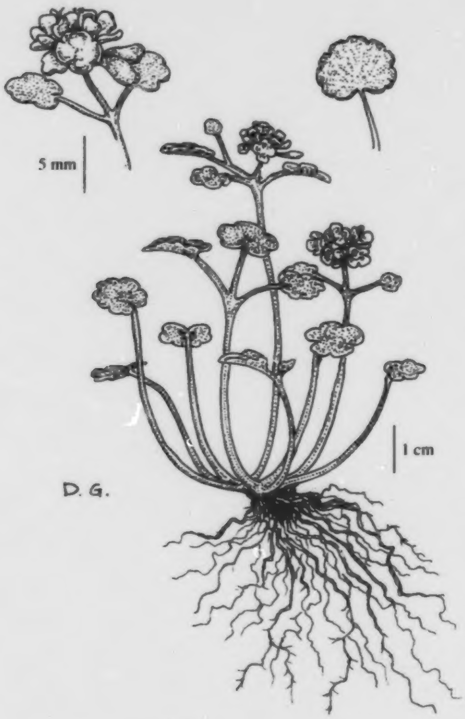
Wright's golden-saxifrage; Wright's golden carpet

Habitat/Range: Wet seepage, solifluction and scree slopes in the alpine zone (AT); rare in NW BC, known only from Squaw Creek, Haines Triangle; amphiberingian, N to AK, YT and NT; NE Asia.

Global/Provincial Rank: G5? S2S3 Status: Blue

Notes: This species was first collected in BC in 1992 (Douglas *et al.* 1994).



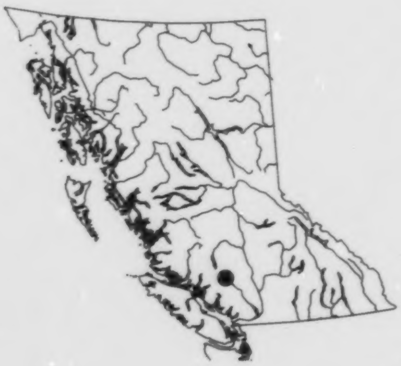


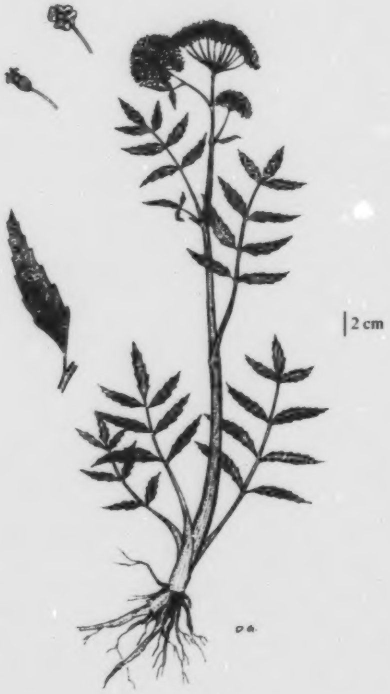
Cicuta maculata **L. var. *maculata***

spotted cowbane

Habitat/Range: Wet sites in the montane zone (CWHds1); rare in SW BC, known only from the upper Lillooet River from a single 1980 collection; N to AK, YT and NT, E to ON and S to TX and MX.

Global/Provincial Rank: G5T5 S2S3 Status: Blue



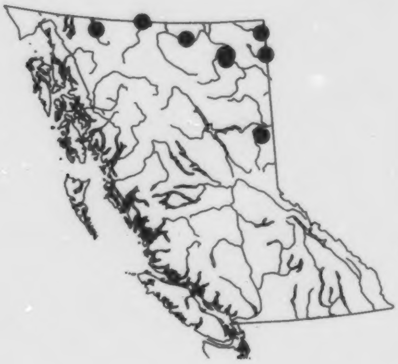


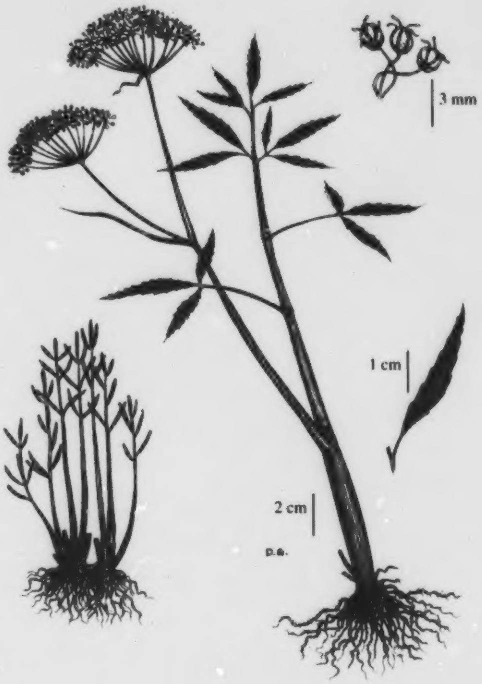
Cicuta virosa **L.** (*C. mackenzieana* Raup)

European water-hemlock

Habitat/Range: Wet stream banks, marshes and lake and pond shores in the montane zone (BWBSdk1, BWBSdk2, BWBSmw1, BWBSmw2); rare in N BC; N to AK, YT and NT and E to PQ.

Global/Provincial Rank: G4G5 S2S3 Status: Blue



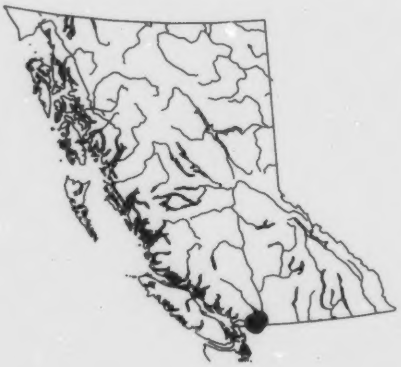


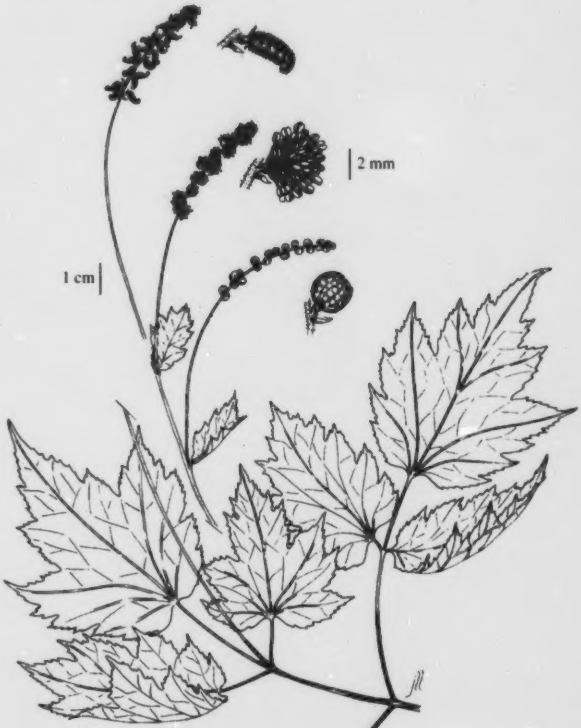
Cimicifuga elata **Nutt.**

tall bugbane

Habitat/Range: Moist forests in the lowland and montane zones (CWHdm, CWHxm1, MHmm2); rare in SW BC, known only from the Cultus Lake-Chilliwack River area; S to NW OR.

Global/Provincial Rank: G2 S1 Status: Red



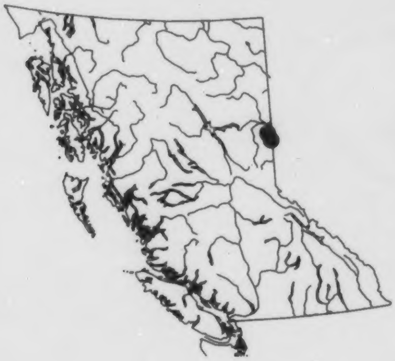


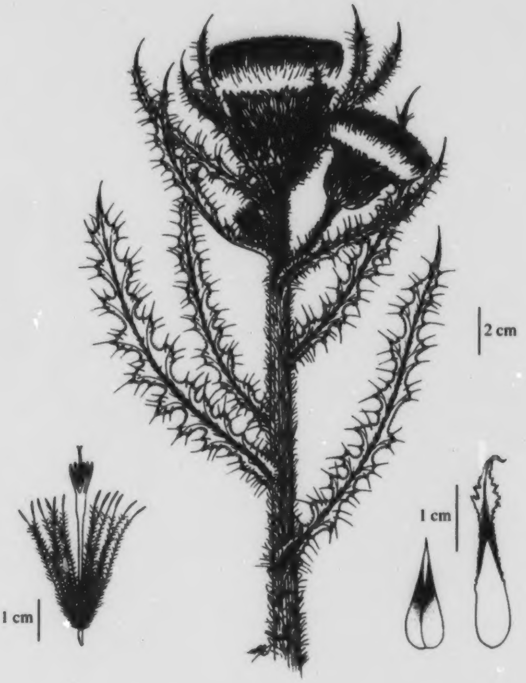
Cirsium drummondii T. & G.

Drummond's thistle

Habitat/Range: Dry open forests in the montane zone (BWBSmw1); rare in NE BC, known recently only from Dawson Creek and Tupper; N to NT, E to ON and disjunct S to SD and WY.

Global/Provincial Rank: G5 S1 Status: Red



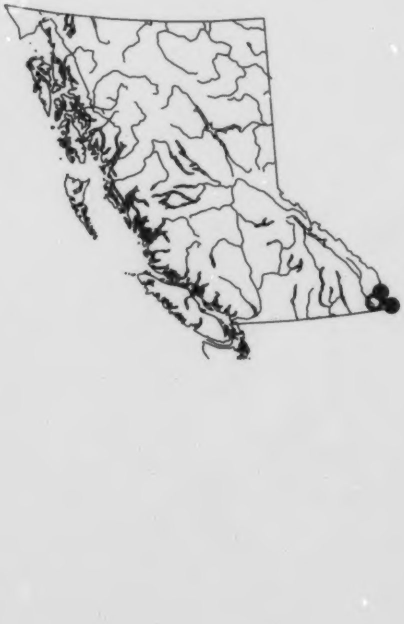


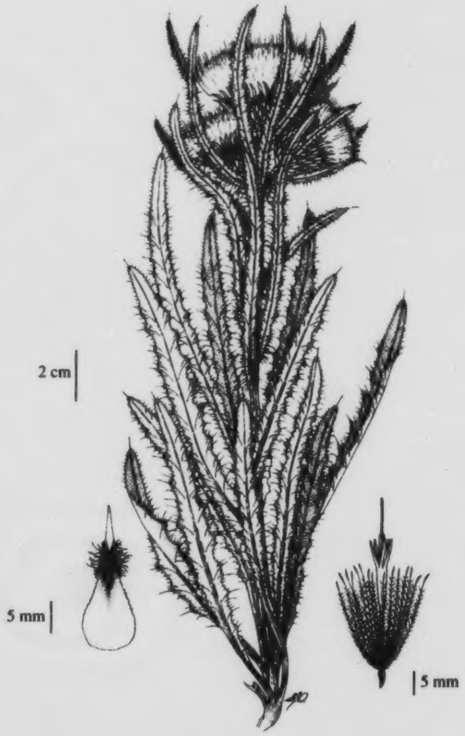
Cirsium scariosum Nutt.

elk thistle

Habitat/Range: Dry open forests in the montane zone (IDFdm2, MSdk); rare in SE BC, known recently only from Crowsnest Pass and Akamina Creek; E to AB and S to ID, MT, CO and AZ.

Global/Provincial Rank: G5 S2S3 Status: Blue



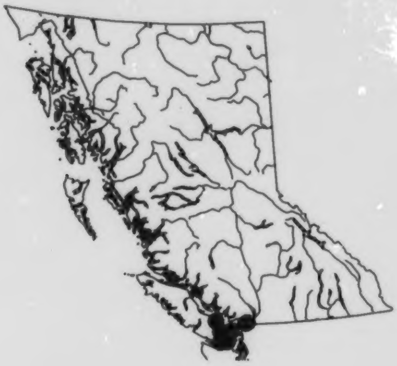


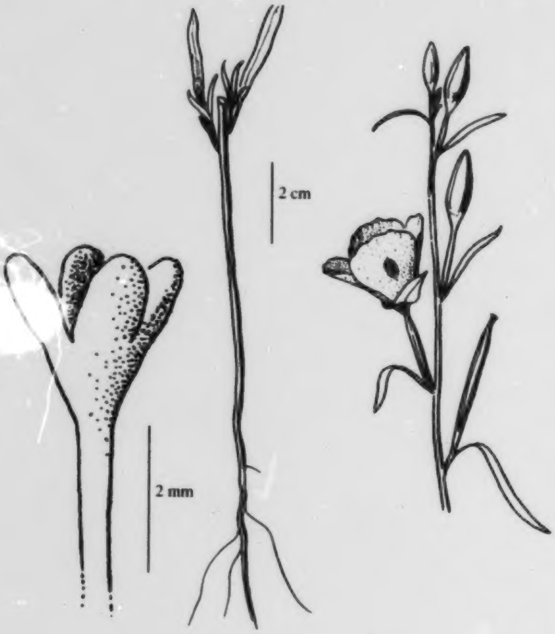
Clarkia amoena **(Lehm.) Nels. & Macbr. var. *caurina* (Abrams) C.L. Hitchc.**

farewell-to-spring; godetia

Habitat/Range: Dry grassy areas in the lowland zone (CDFmm, CWHxm2); rare on S Vancouver Island, the adjacent Gulf Islands and the lower Fraser Valley; S to CA.

Global/Provincial Rank: G5T5? S3 Status: Blue



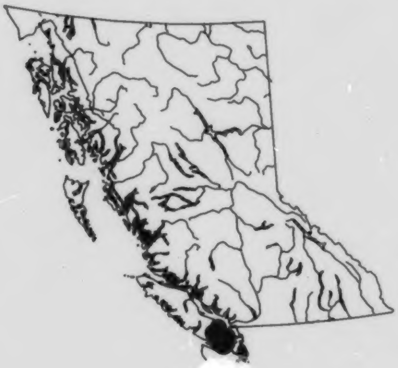


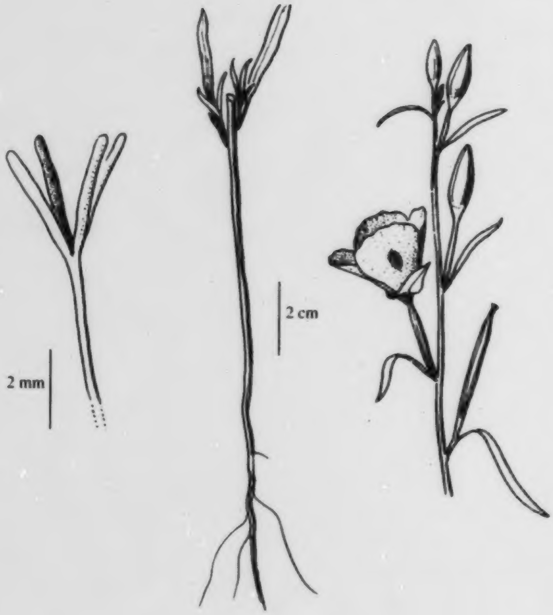
Clarkia amoena **(Lehm.) Nels. & Macbr. var. *lindleyi* (Dougl.) C.L. Hitchc.**

farewell-to-spring; godetia

Habitat/Range: Dry grassy areas in the lowland zone (CDFmm, CWHxm2); rare on S Vancouver Island and the adjacent Gulf Islands; S to CA.

Global/Provincial Rank: G5T5 S3 Status: Blue



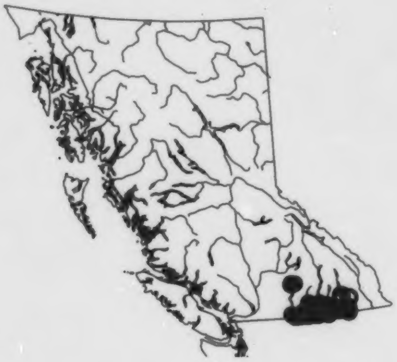


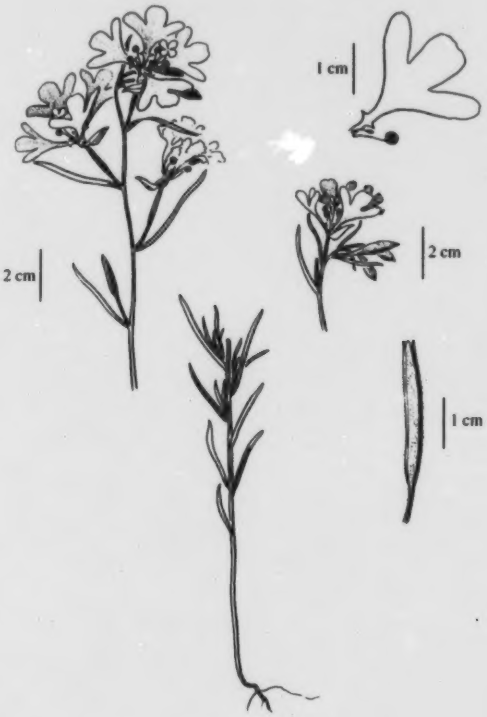
Clarkia pulchella Pursh

pink fairies

Habitat/Range: Dry, open areas in the steppe and montane zones (BGxh1, ICHdw, ICHmk1, ICHmw2, ICHxw, IDFdm1, IDFmw1, IDFxh1, IDFun, MSxk, PPdh1); rare in S BC east of the Coast-Cascade Mountains; S to OR, ID and MT.

Global/Provincial Rank: G5? S3 Status: Blue



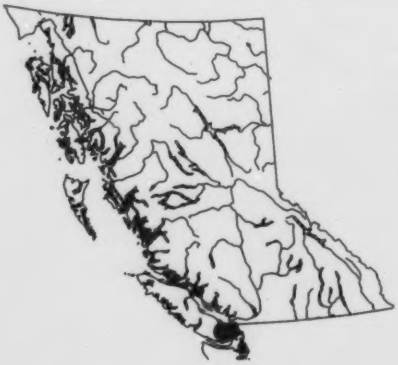


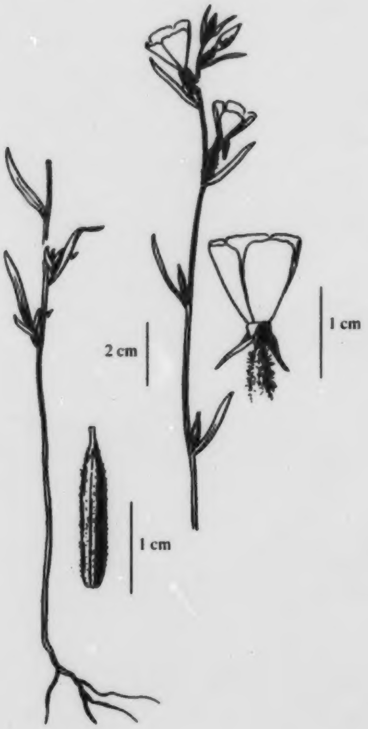
Clarkia purpurea (Curtis) Nels. & Macbr. ssp. *quadrivulnera* (Dougl *ex* Lindl.) H.F. & M.E. Lewis (*C. quadrivulnera* [Dougl. *ex* Lindl.] Nels. & Macbr., *Godetia quadrivulnera* [Dougl *ex* Lindl.] Spach, *Oenothera quadrivulnera* Dougl. *ex* Lindl.)

small-flowered godetia

Habitat/Range: Dry, grassy slopes in the lowland zone (CDFmm, CWHxm1); rare in SW BC, known only from Mt. Tzuhalem and Saturna Island S to AZ and CA.

Global/Provincial Rank: G5T5 S1 Status: Red



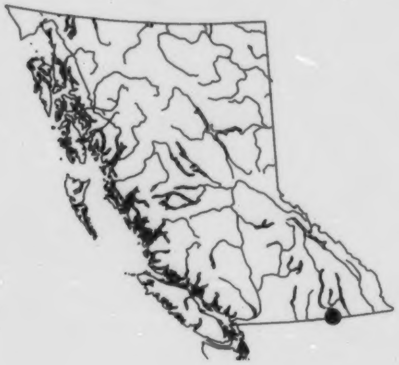


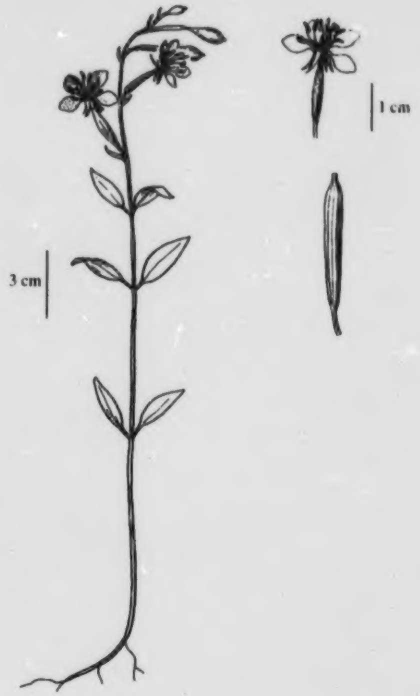
Clarkia rhomboidea **Dougl. *ex* Hook.**

common clarkia

Habitat/Range: Dry, open areas in the lower montane zone (ICHxw); rare in SE BC; S to ID, UT, AZ and CA.

Global/Provincial Rank: G5 S1 Status: Red



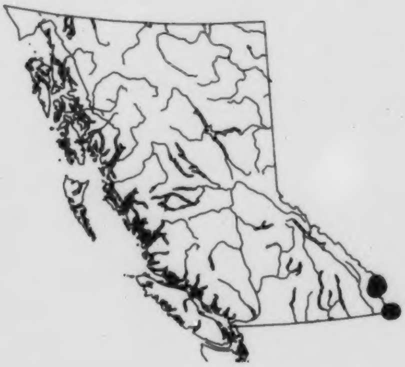


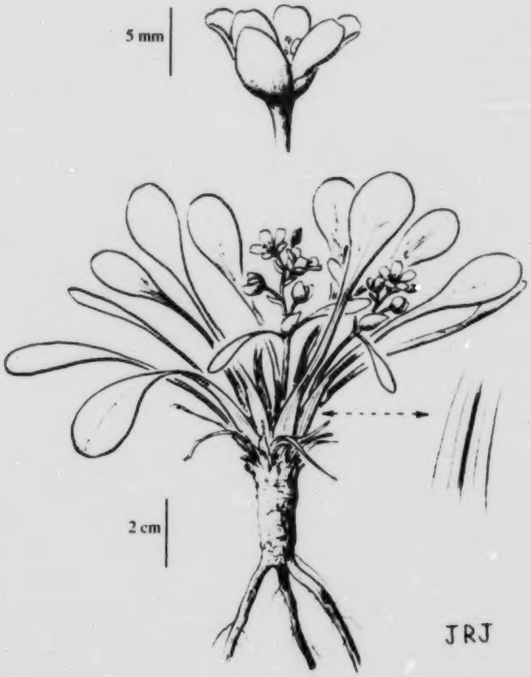
Claytonia megarhiza **(A. Gray) Parry *ex* S. Wats. var. *megarhiza***

alpine springbeauty

Habitat/Range: Dry gravelly slopes, rock outcrops and talus slopes in the alpine zone (AT); rare in SE BC; E to S AB and S to CO, UT, NM and NV; disjunct in NT.

Global/Provincial Rank: G4?T? S2S3 Status: Blue



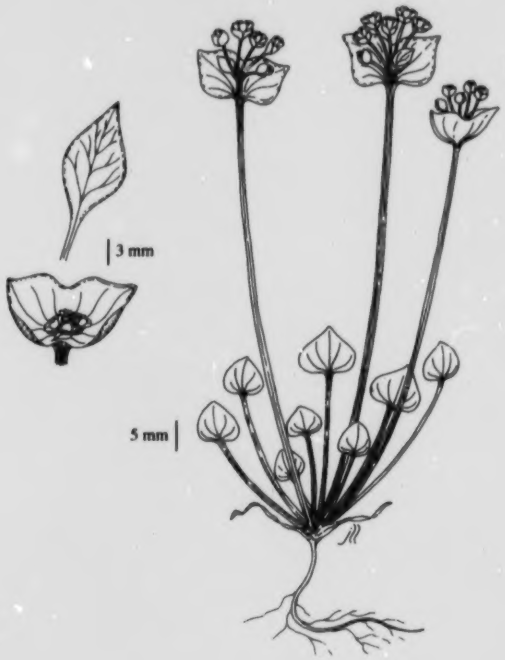


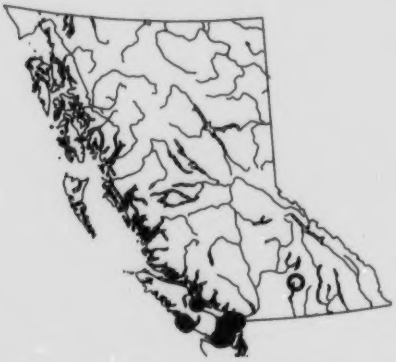
***Claytonia rubra* (Howell) Tidestr. ssp. *depressa* (A. Gray) J. Miller & Chambers** (*C. perfoliata* var. *depressa* [A. Gray] van Poelln., *Montia parviflora* Howell ssp. *depressa* (A. Gray) Robins.)

redstem springbeauty

Habitat/Range: Mesic to dry sand dunes, meadows, open forests and rock outcrops in the lowland, steppe and montane zones (CDFmm, CWHvh1, CWHxm1); rare on SE Vancouver Island, the Gulf Islands and in the lower mainland (Boundary Bay); S to SD, CO and CA.

Global/Provincial Rank: G5T? S2 Status: Red



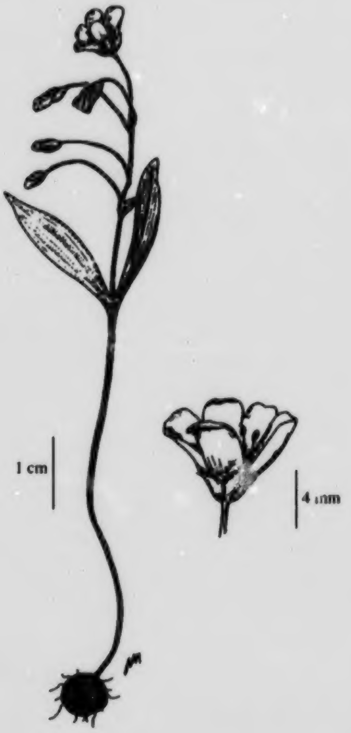


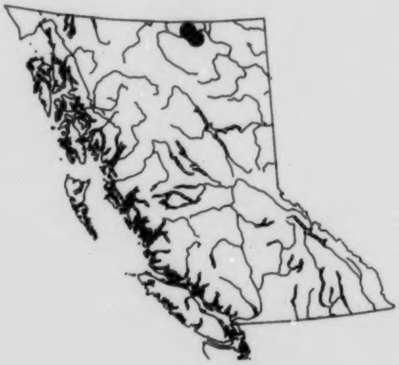
***Claytonia tuberosa* Pallas *ex* Willd.** (*C. caroliniana* Michx. var. *tuberosa* [Pallas *ex* Willd.] Boivin)

tuberous springbeauty

Habitat/Range: Moist sites in the subalpine and alpine zones (AT, SWBdk, SWBvk); rare in N BC; amphiberingian, N to AK and S YT; E Asia.

Global/Provincial Rank: G4 S2S3 Status: Blue



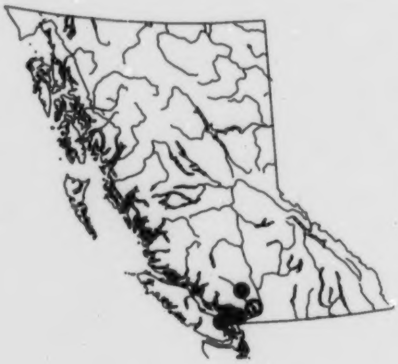


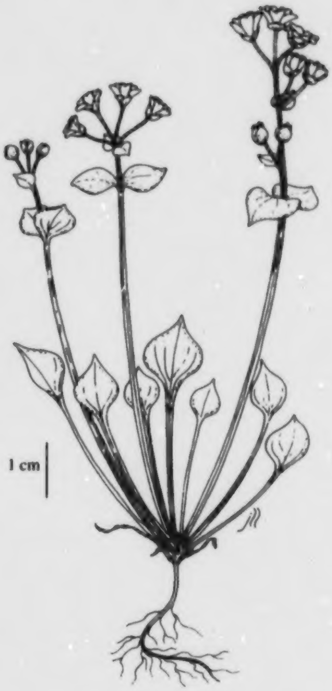
***Claytonia washingtoniana* (Suksd.) Suksd.**

Washington springbeauty

Habitat/Range: Moist to mesic, mossy rock outcrops and forests in the lowland and montane zones (CDFmm, CWHdm, CWHxm1, IDFww); rare in SW BC; S to CO and CA.

Global/Provincial Rank: G2G4 S2 Status: Red





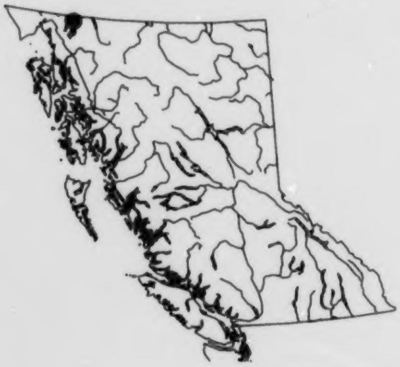
***Cnidium cnidiifolium* (Turcz.) Schischk.** (*Conioselinum cnidiifolium* [Turcz.] Porsild)

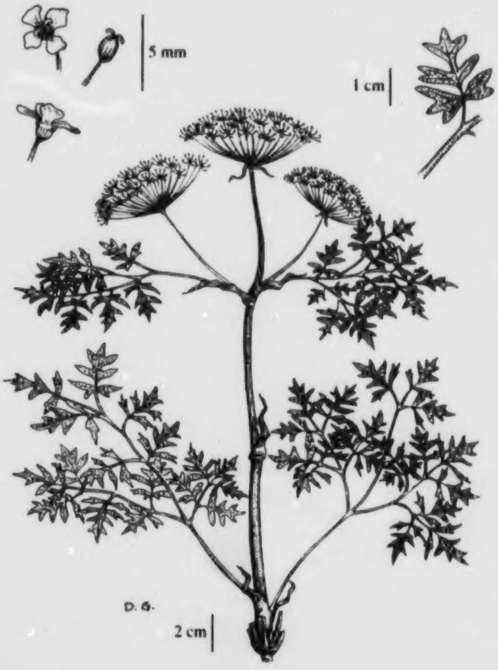
northern hemlock-parsley

Habitat/Range: Moist to mesic meadows, roadsides, gravelly slopes and forest openings in the montane zone (BWBSdk1); rare in NW BC, known only from Atlin Road; amphiberingian, N to AK, YT and NT; E Asia.

Global/Provincial Rank: G5 S2S3 Status: Blue

Notes: This species was first recorded for BC in 1992 (Douglas *et al.* 1994).





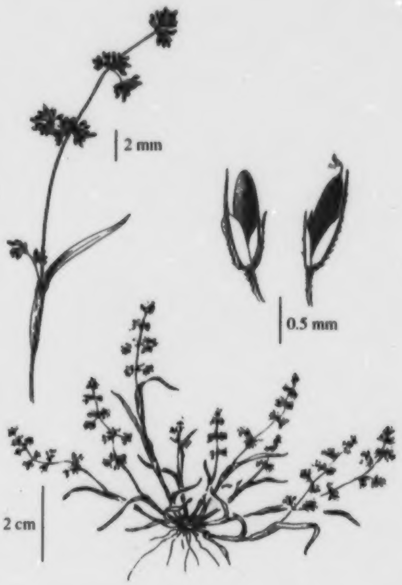
Coleanthus subtilis (Tratt.) Seidel

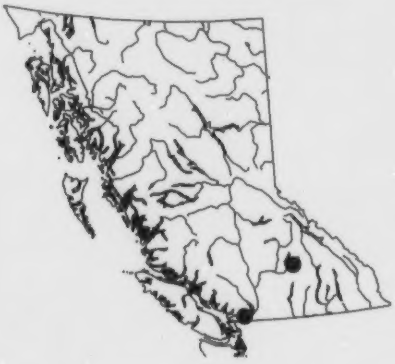
moss grass

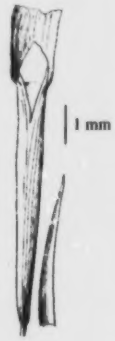
Habitat/Range: Damp, muddy lake margins in the lowland and lower montane zone (CWHdm, IDFmw2); rare in SW and SC BC, known only from Hatzic and Shuswap Lakes; native to N and C Europe.

Global/Provincial Rank: G? S1 Status: Red

Notes: Elsewhere in North America, this species occurs only on the lower Columbia River. It is treated as a rare native plant by the CDC although it may be of European origin. This decision is based on the fact that the collector (A. Ceska) finds little difference in the BC and European habitats. In addition, this small plant is extremely difficult to find and could easily have been overlooked in other areas. Hitchcock *et al.* (1969), however, treated the taxon as an introduction.







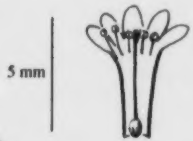
Collomia tenella A. Gray

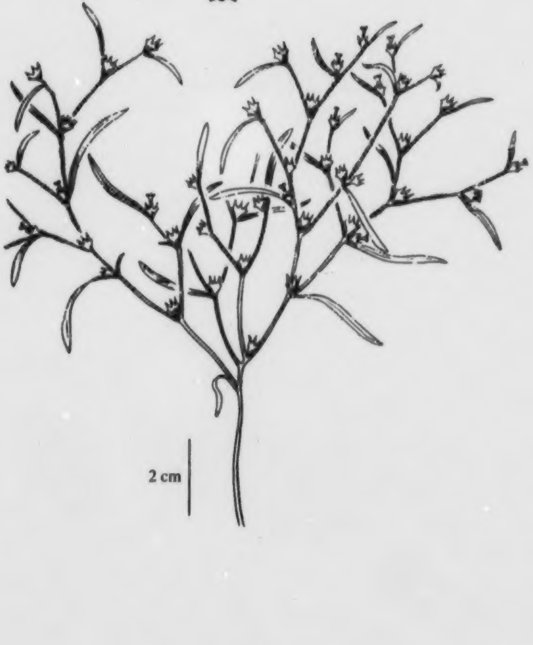
slender collomia

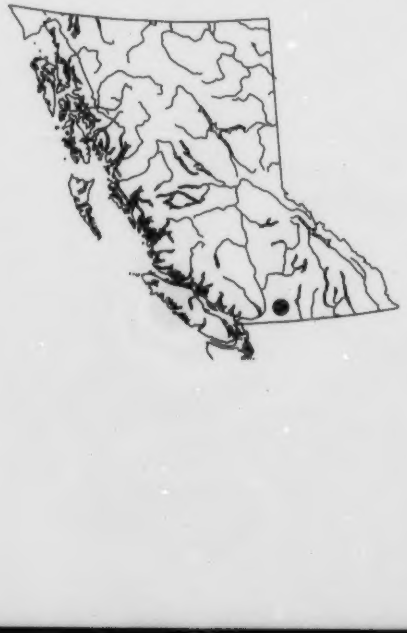
Habitat/Range: Dry open areas, sagebrush flats and claybanks in the steppe and montane zones (IDFxh1); rare in extreme SC BC, known only from the Princeton area (Similkameen Valley); S to UT and NV.

Global/Provincial Rank: G4? S1 Status: Red

Notes: This species was first recorded for BC in 1997 by F. Lomer.





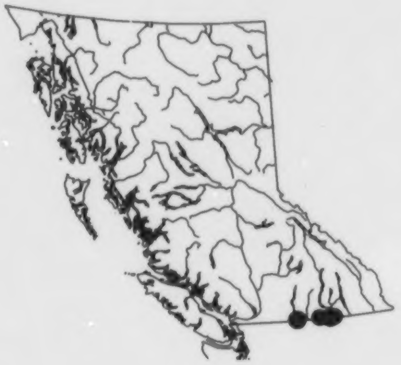


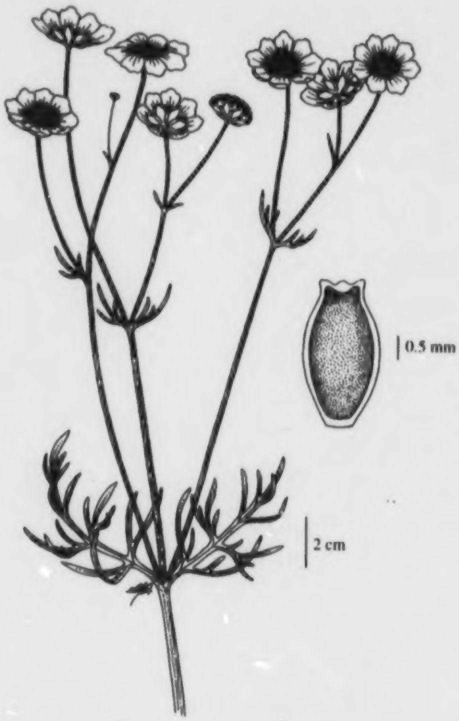
Coreopsis tinctoria **Nutt. var.** ***atkinsoniana*** **(Dougl.** ***ex*** **Lindl.) H.M. Parker** (*C. atkinsoniana* Dougl. *ex* Lindl.)

Atkinson's coreopsis

Habitat/Range: Moist river banks in the steppe and montane zones (BGxh1, ICHdw); rare in extreme SC BC; S to WA and N OR.

Global/Provincial Rank: G5T5 S1 Status: Red



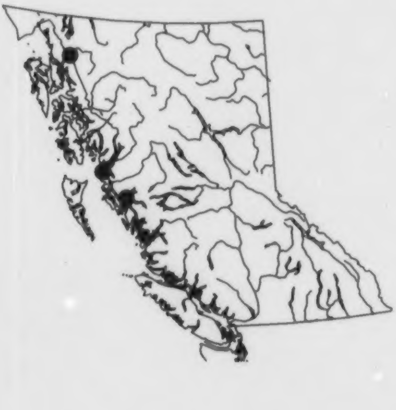


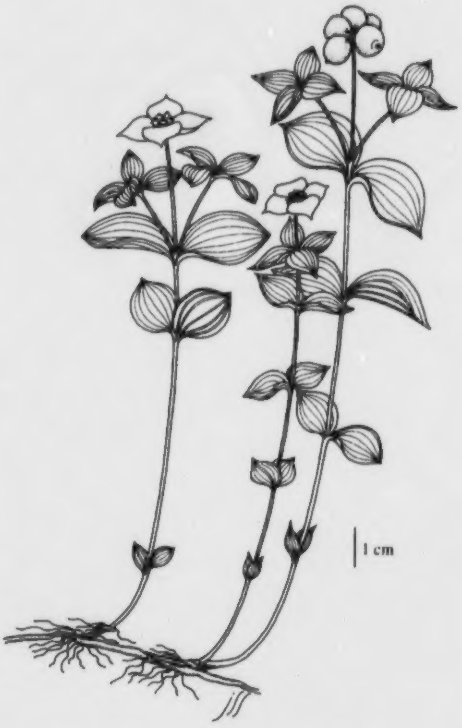
Cornus suecica **L.**

dwarf bog bunchberry

Habitat/Range: Moist to mesic forests and meadows in the lowland to alpine zones (AT, CWHvh2, CWHwm); rare in coastal BC; circumpolar, N to AK and NT and E to NF; Greenland, Eurasia.

Global/Provincial Rank: G5 S2S3 Status: Blue





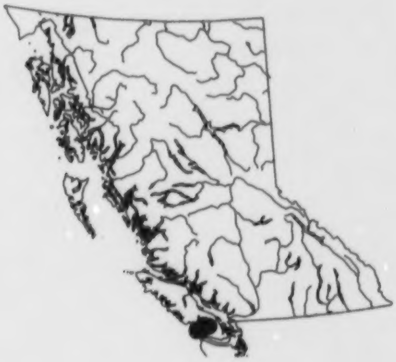
Corydalis scouleri **Hook.**

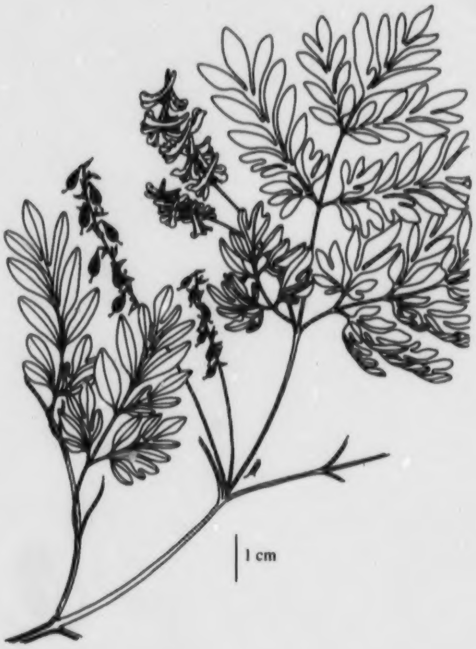
Scouler's corydalis

Habitat/Range: Moist woodlands, forests and streambanks in the lowland zone (CWHvh1, CWHvm1, CWHxm2); rare on S Vancouver Island; S to N OR.

Global/Provincial Rank: G4 S2 Status: Red

Notes: For colour illustration see Pojar and MacKinnon (1994).



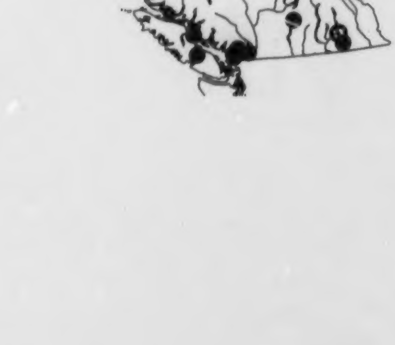


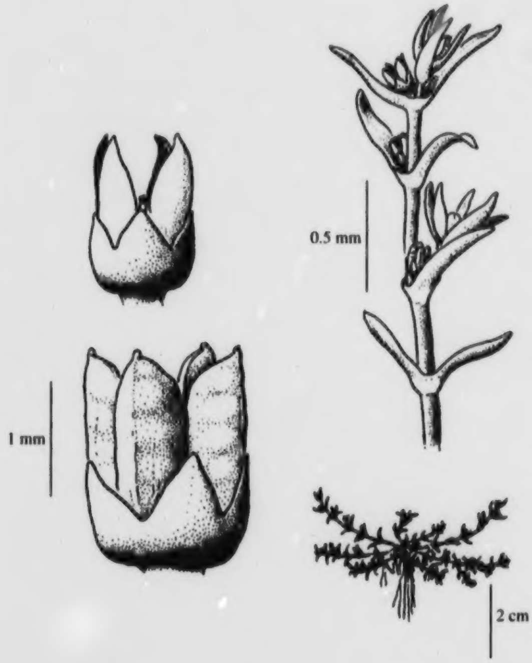
Crassula aquatica **(L.) Schoenl.** (*Tillaea aquatica* L.)

pigmyweed

Habitat/Range: Wet vernal pools and mudflats in the lowland zone (CDFmm, CWHds1, ICHxw, IDFxh1a); rare, scattered through S BC; circumpolar, N to AK and NT and S to CA and MX; Iceland, Eurasia.

Global/Provincial Rank: G5 S3 Status: Blue



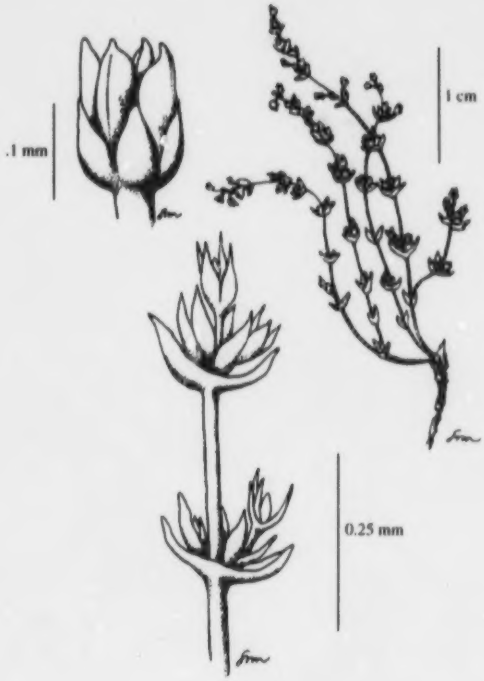


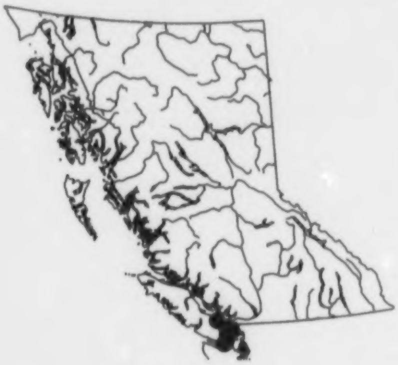
Crassula connata **(Ruiz & Pavon) Berger var. *connata***
(*C. erecta* [H.& A.] Berger, *Tillaea erecta* H.& A.)

erect pigmyweed

Habitat/Range: Wet to moist vernal pools on coastal bluffs in the lowland zone (CDFmm); rare on S Vancouver Island and the Gulf Islands; S to AZ, CA and MX; Chile.

Global/Provincial Rank: G5T? S2 Status: Red



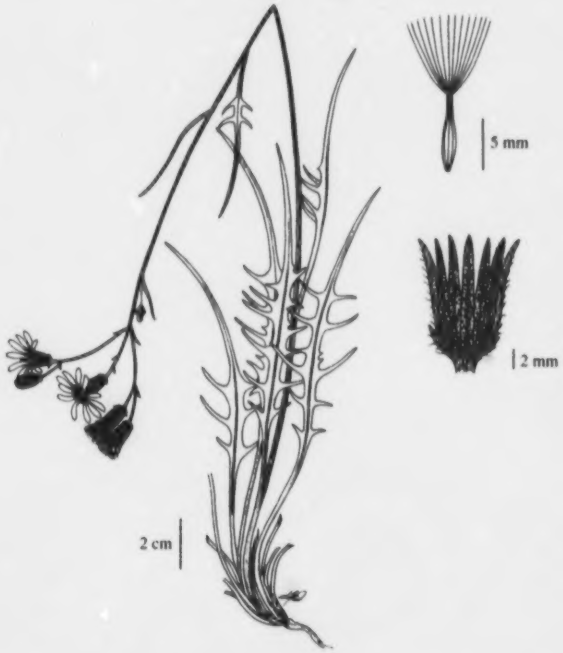


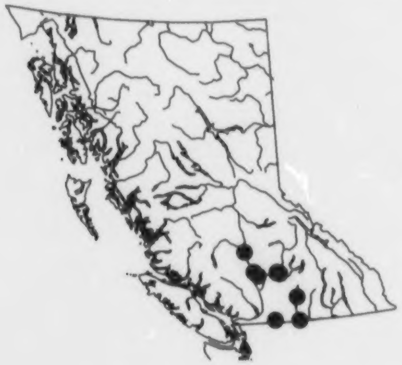
Crepis atribarba **Heller ssp. *atribarba*** (*C. exilis* Osterhout)

slender hawksbeard

Habitat/Range: Dry sandy or gravelly grasslands, shrublands and open forests in the steppe and lower montane zones (BGxh3, ESSFmw, PPxh1, PPxh2); rare in S BC east of the Coast-Cascade Mountains; E to AB and S to NV, UT and CA.

Global/Provincial Rank: G5T5 S1 Status: Red



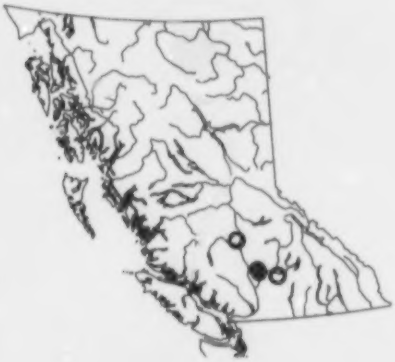


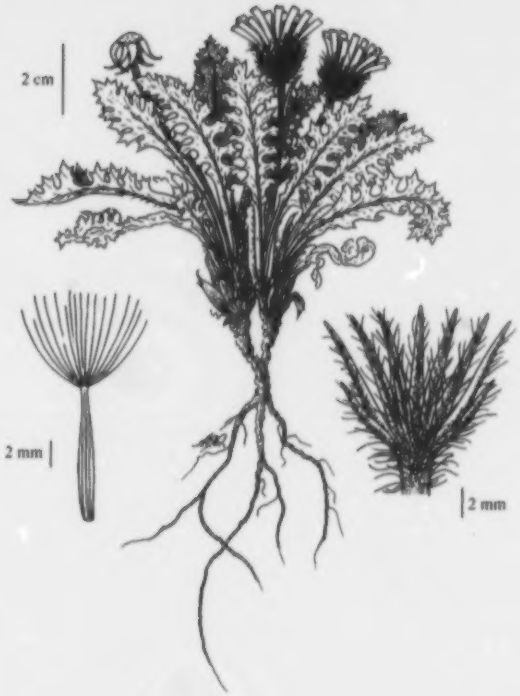
Crepis modocensis* Greene ssp. *modocensis

low hawksbeard

Habitat/Range: Dry grasslands and shrublands in the steppe zone (BGxw1); rare in SC BC, known recently only from Ashcroft; S to WY, CO and CA.

Global/Provincial Rank: G4G5T4 S1 Status: Red



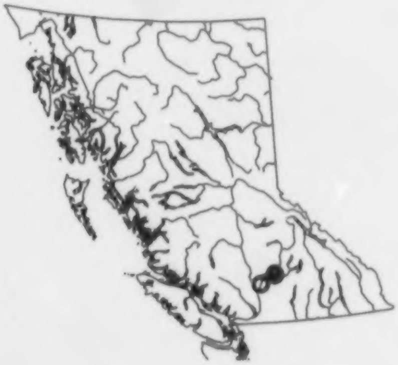


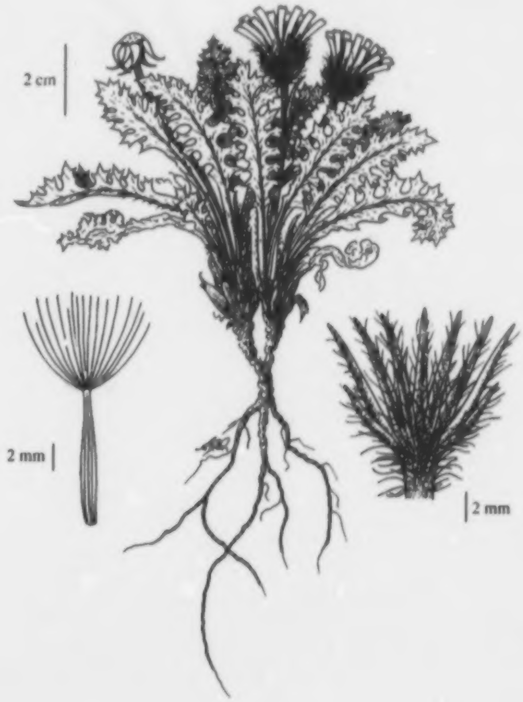
***Crepis modocensis* Greene ssp. *rostrata* (Coville) Babc. & Stebb.**

western low hawksbeard

Habitat/Range: Dry grasslands and shrublands in the steppe zone (BGxh2); rare in SC BC, known recently only from Lac du Bois; S to WY, CO and CA.

Global/Provincial Rank: G4G5T3T4 S1 Status: Red



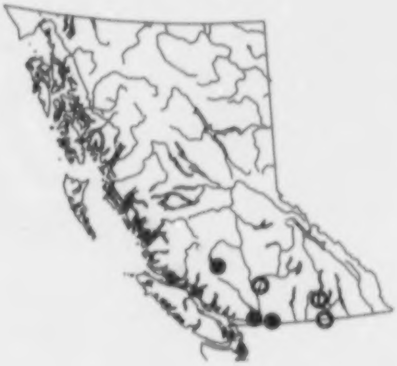


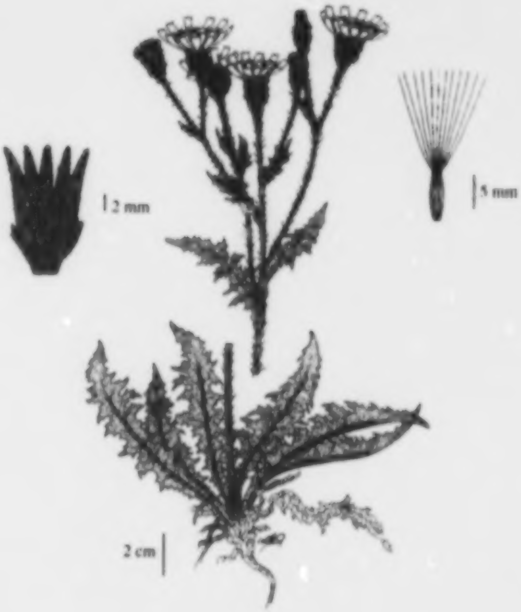
Crepis occidentalis **Nutt. ssp.** ***pumila*** **(Rydb.) Babc. & Stebb.**

western hawksbeard

Habitat/Range: Dry grasslands, shrublands and scree slopes in the steppe and montane zones (BGxh2, ESSFmw, ICHdw, ICHmw2); rare in SC BC; E to S AB and S to SD, NM and CA.

Global/Provincial Rank: G5T5 S1 Status: Red



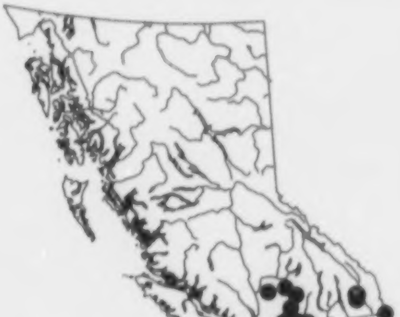


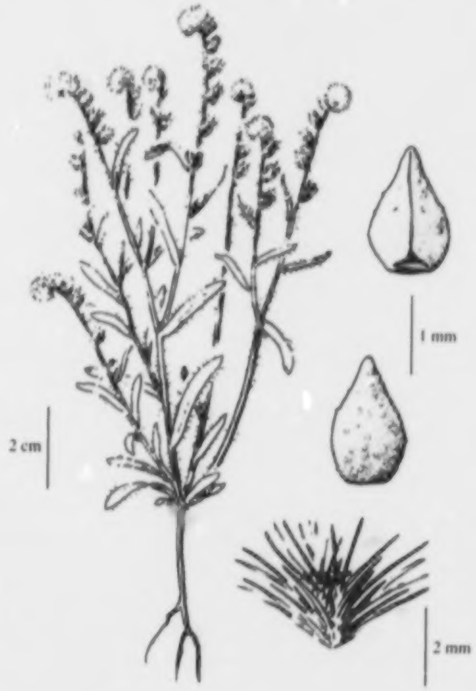
Cryptantha ambigua **(A. Gray) Greene**

obscure cryptantha

Habitat/Range: Dry grasslands and shrublands in the steppe and montane zones (BGxh1, BGxw1, ICHmk1, IDFdk1, IDFdm1, IDFdm2, MSdk, MSxk, PPdh1); rare in SC and SE BC; S to CO, NV and NE CA.

Global/Provincial Rank: G4 S2 Status: Red



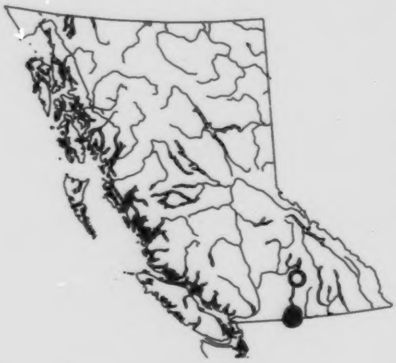


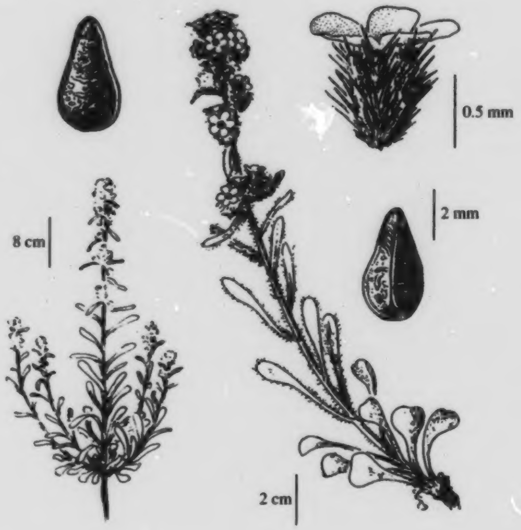
Cryptantha celosioides **(Eastw.) Payson** *(C. nubigena* [Greene] Payson var. *celosioides* [Eastw.] Boivin)

cockscomb cryptantha

Habitat/Range: Dry grasslands and shrublands in the steppe zone (BGxh1); rare in SC BC; S to NE and NV.

Global/Provincial Rank: G5 S1 Status: Red



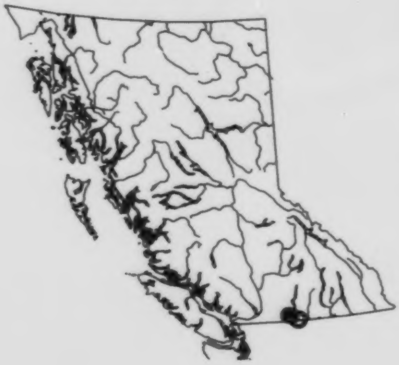


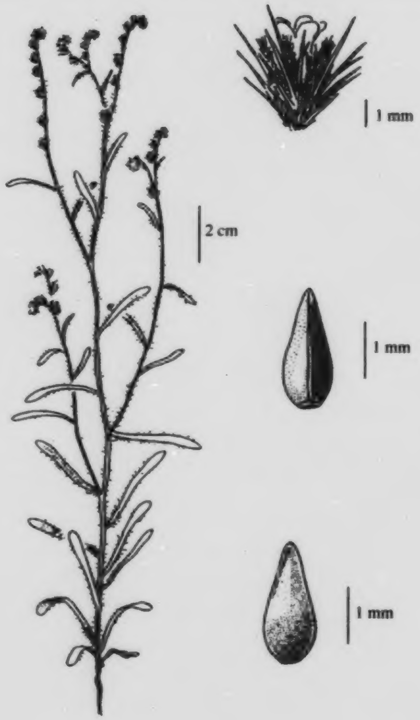
Cryptantha watsonii **(A. Gray) Greene**

Watson's cryptantha

Habitat/Range: Dry grasslands, shrublands and open forests in the steppe and lower montane zones (BGxh1); rare in SC BC; S to MT, CO and NV.

Global/Provincial Rank: G5 S1 Status: Red



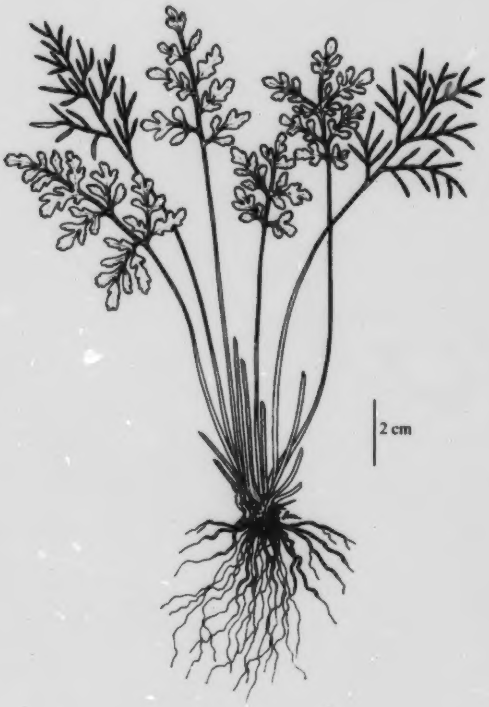


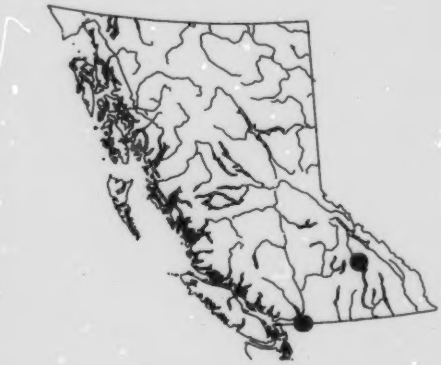
Cryptogramma cascadensis **Alverson**

Cascade parsley fern

Habitat/Range: Dry to mesic rocks and rocky scree slopes in the subalpine and alpine zones (AT, ESSFvc, ESSFvcp); rare in S BC (Revelstoke, Cascade Mountains); S to MT, ID and CA.

Global/Provincial Rank: G5 S2S3 Status: Blue



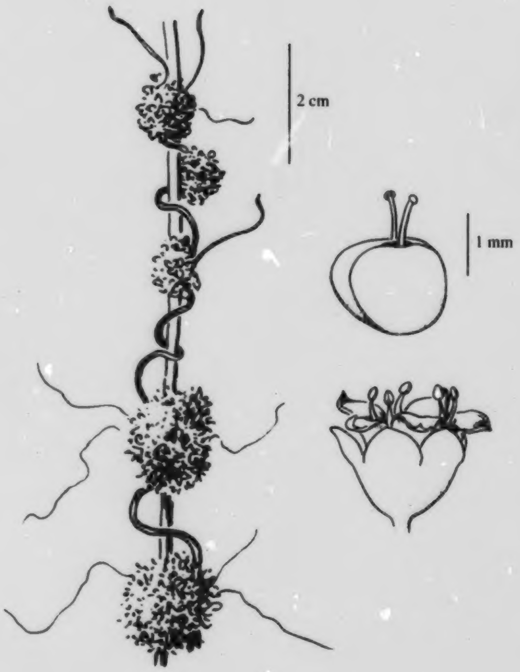


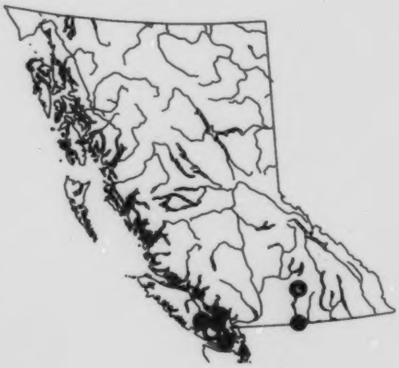
Cuscuta pentagona **Engelm.** (*Grammica pentagona* [Engelm.] Weber)

field dodder; five-angled dodder

Habitat/Range: Parasitic, especially on legumes, in the lowland, steppe and montane zones (BGxh1, CDFmm, CWHxm1, CWHxm2, IDFxh1a); rare in SW and SC BC; ranges over much of U.S. and S Canada.

Global/Provincial Rank: G5 S2S3 Status: Blue



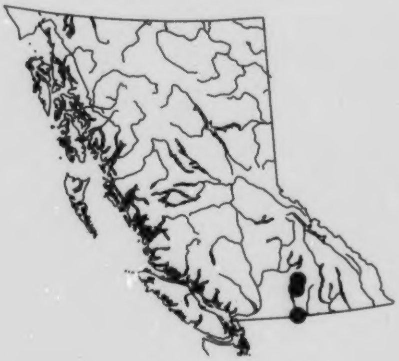


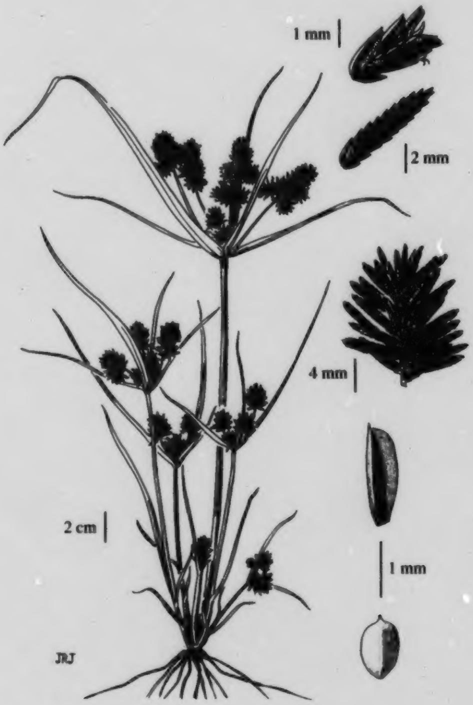
Cyperus erythrorhizos **Muhl.**

red-rooted cyperus

Habitat/Range: Moist to wet lakeshores in the steppe zone (BGxh1); rare in SC BC; disjunct E to S ON and S to FL, MS, TX, NM, AZ and CA.

Global/Provincial Rank: G5 S1 Status: Red





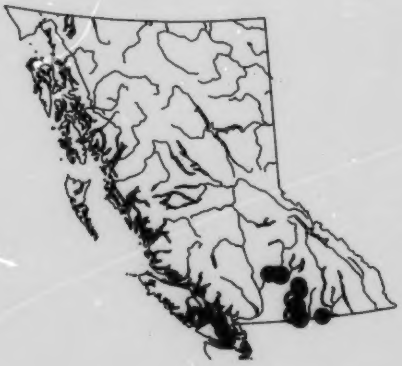
Cyperus squarrosus **L.** (*C. aristatus* Rottb., *C. inflexus* Muhl.)

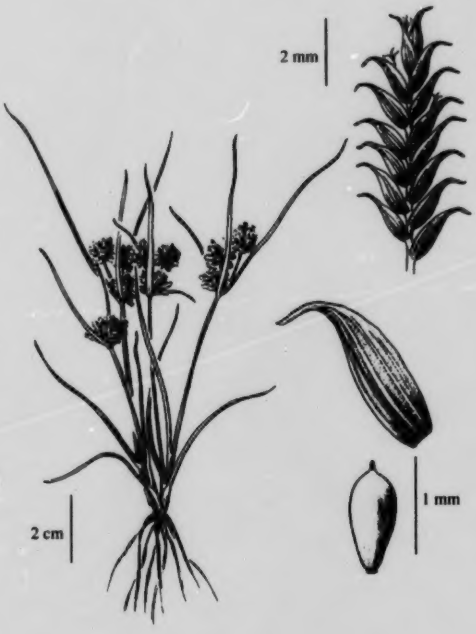
awned cyperus

Habitat/Range:

Moist to wet, often sandy sites in the lowland and steppe zones (BGxh1, BGxh2, CDFmm, CWHxm1, CWHxm2, IDFmw1, IDFxh1, PPxh1); rare on S Vancouver Island and SC BC; cosmopolitan, E to PQ and NB and S to FL, TX and MX; Asia, S America.

Global/Provincial Rank: G5 S3 Status: Blue



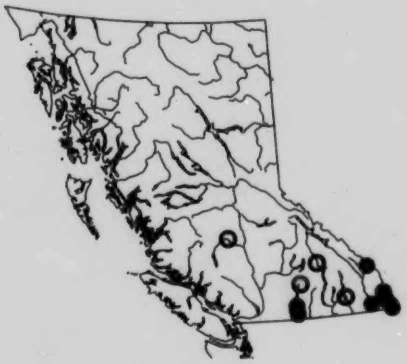


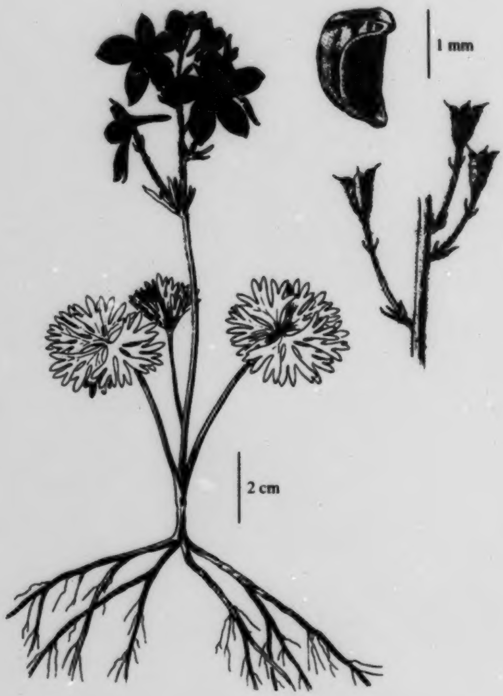
Delphinium bicolor **Nutt. ssp.** ***bicolor***

Montana larkspur

Habitat/Range: Dry grasslands, shrublands, rocky slopes and forests from the steppe to subalpine zones (ESSFdk, ESSFdkp, ICHdw, ICHmw3, IDFdm2, MSdk); rare in S BC; E to SK and S to SD and WY.

Global/Provincial Rank: G4G5T? S2S3 Status: Blue



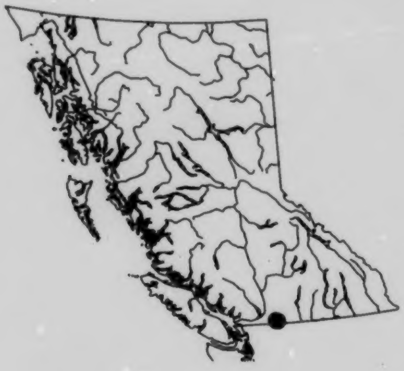


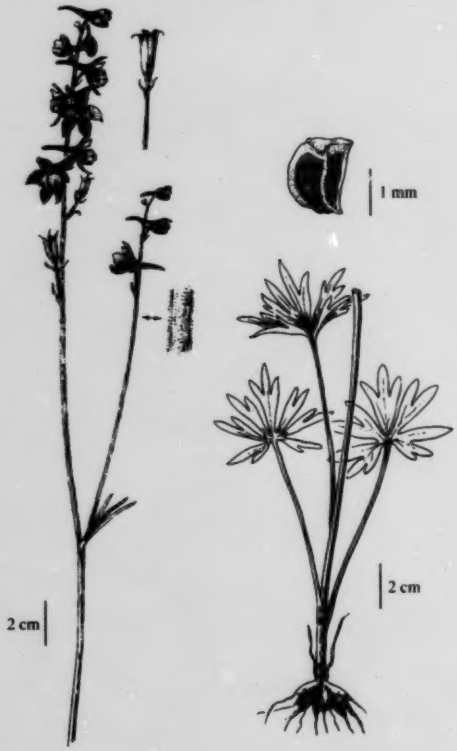
Delphinium glareosum **Greene**

rockslide larkspur

Habitat/Range: Mesic rocky slopes in the montane zone (ESSFmw); rare in SW BC, known only from Manning Provincial Park; S to OR.

Global/Provincial Rank: G3G4 S1 Status: Red



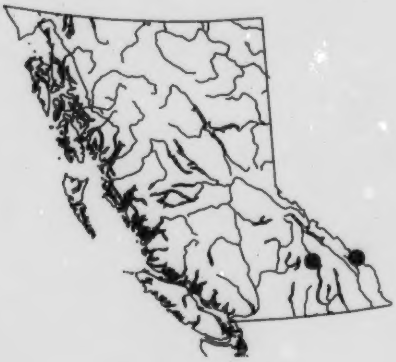


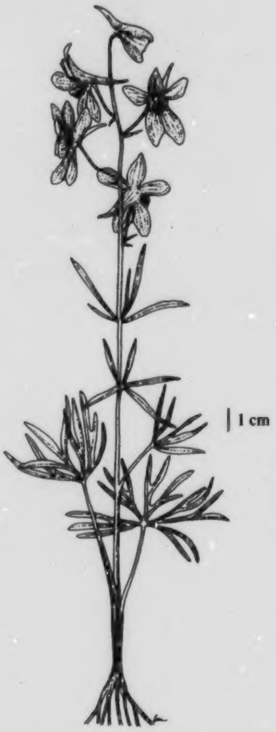
***Delphinium sutherlandii* Warnock**

Sutherland's larkspur

Habitat/Range: Mesic to dry shrublands and open forests in the subalpine and alpine zones (ESSFvc, AT); rare in SE BC; S to E WA, N ID and NW MT.

Global/Provincial Rank: G? S2S3 Status: Blue



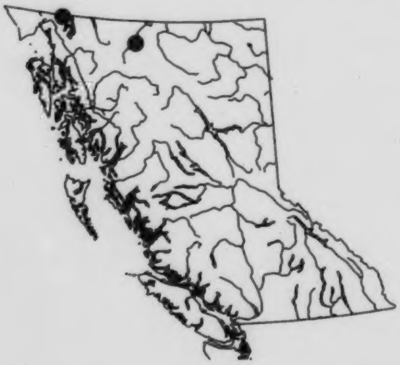


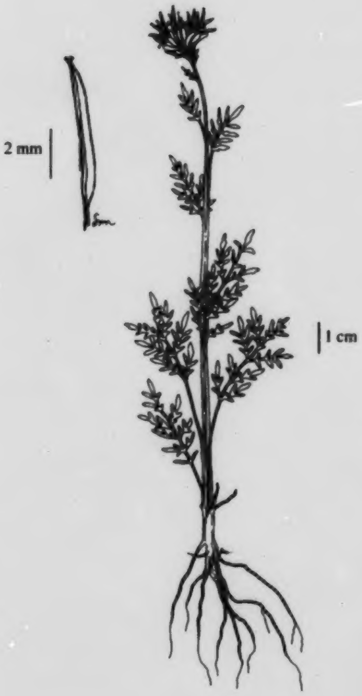
***Descurainia sophioides* (Fisch. *ex* Hook.) O.E. Schulz**

northern tansy mustard

Habitat/Range: Moist to mesic roadsides, disturbed areas and waste places in the montane zone (BWBSdk1); rare in N BC; amphiberingian, N to AK, YT and NT and E to MB; E Asia.

Global/Provincial Rank: G5 S2S3 Status: Blue



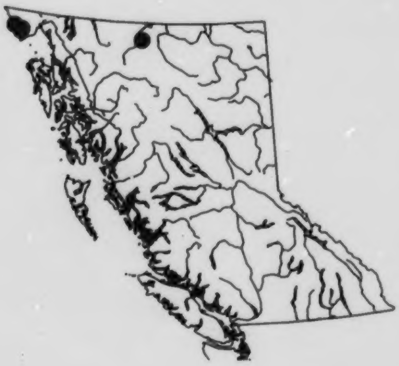


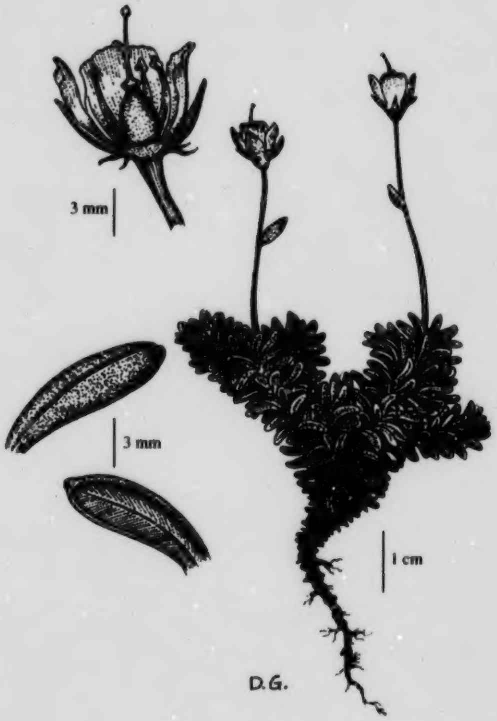
***Diapensia lapponica* L. ssp. *obovata* (Fr. Schmidt) Hult.**
(*D. obovata* [Fr. Schmidt] Nakai)

diapensia

Habitat/Range: Mesic meadows and rocky slopes in the alpine zone (AT); rare in NW BC; amphiberingian; N to AK, YT and W NT; NE Asia.

Global/Provincial Rank: G5T5 S2S3 Status: Blue



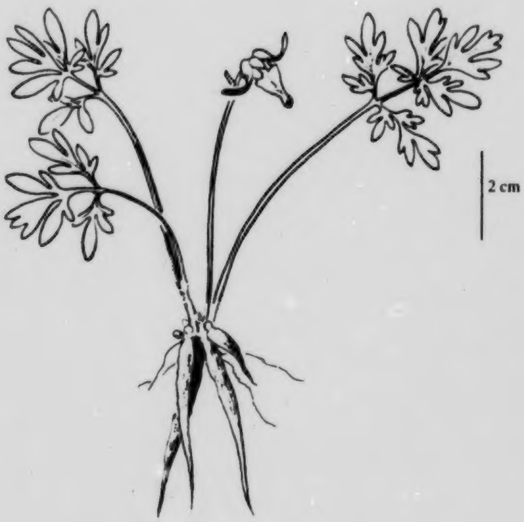


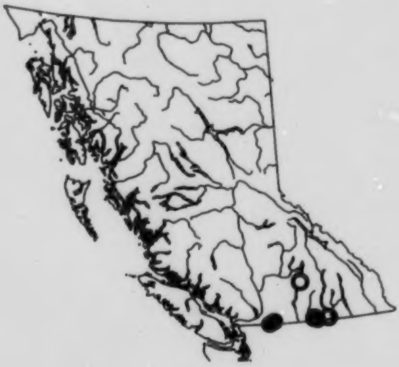
***Dicentra uniflora* Kell.**

steer's head

Habitat/Range: Mesic to dry meadows and scree slopes in the montane and subalpine zones (ESSFmw, ESSFwc, ICHdw, ICHmk1, IDFdm1, IDFww, IDFxh1); rare E of the Coast-Cascade Mountains in SW and SC BC; S to WY, UT and CA.

Global/Provincial Rank: G4? S2S3 Status: Blue



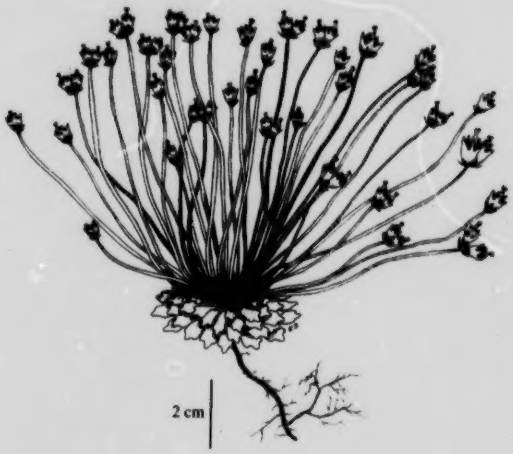


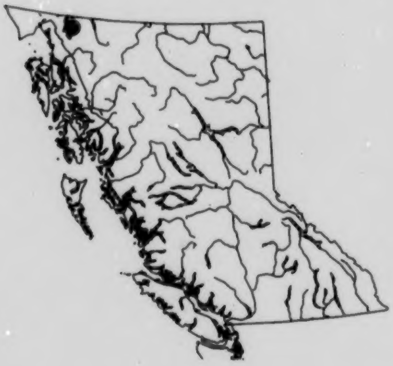
***Douglasia alaskana* (Coville & Standley *ex* Hultén) S. Kelso** (*Androsace alaskana* Coville & Standley *ex* Hultén, *A. alaskana* var. *reedae* Welsh & Goodrich)

Alaskan fairy-candelabra

Habitat/Range: Mesic to dry scree slopes in the alpine zone (AT); rare in NW BC, known only from Big Island, Atlin Lake; N to SE AK and SW YT.

Global/Provincial Rank: G2G3 S1 Status: Red



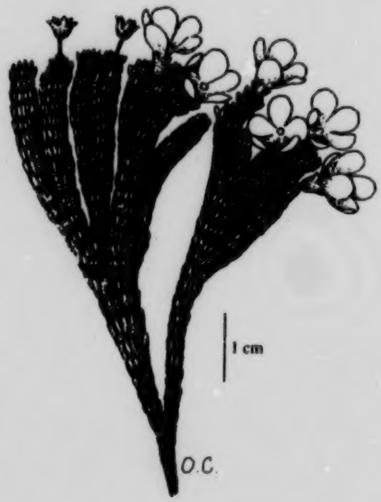


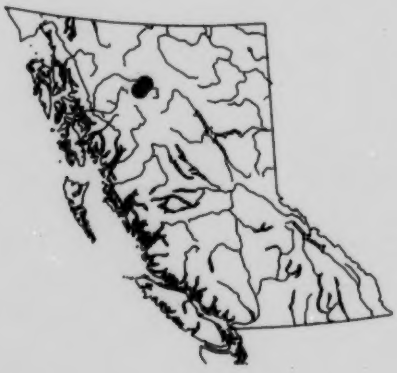
***Douglasia gormanii* Const.** (*D. arctica* Hook. var. *gormannii* [Const.] Boivin)

Gorman's douglasia

Habitat/Range: Moist, rocky slopes in the alpine zone (AT); rare in N BC, known only from Spatsizi Plateau; N to AK and YT.

Global/Provincial Rank: G3 S2S3 Status: Blue





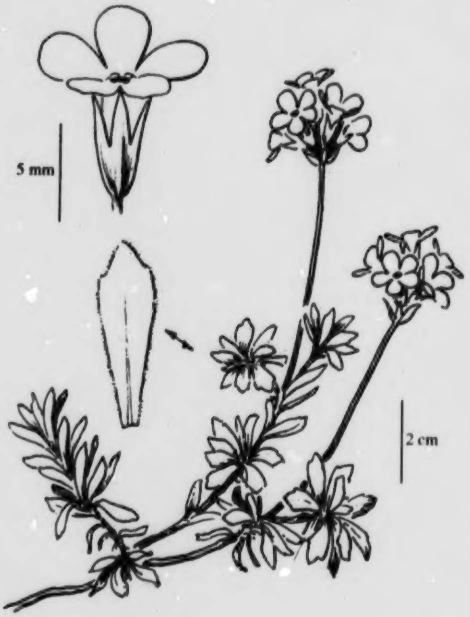
Douglasia laevigata **Gray var.** ***ciliolata*** **(Constance) Calder & Taylor**

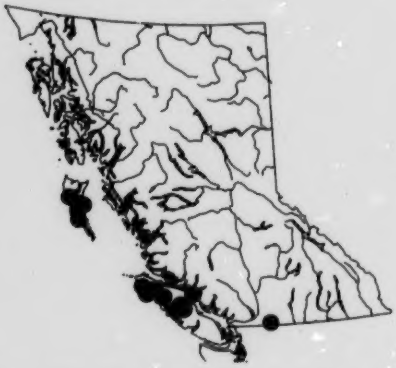
smooth douglasia

Habitat/Range: Moist talus slopes to rocky ridges and ledges in the subalpine and alpine zones (AT, ESSFmw, MHmm1, MHwh); rare on Vancouver Island and the Queen Charlotte Islands, and also known from Manning Provincial Park; E to SW AB and S to OR.

Global/Provincial Rank: G3T3 S2S3 Status: Blue

Notes: For colour illustration see Clark (1976) and Taylor and Douglas (1995).





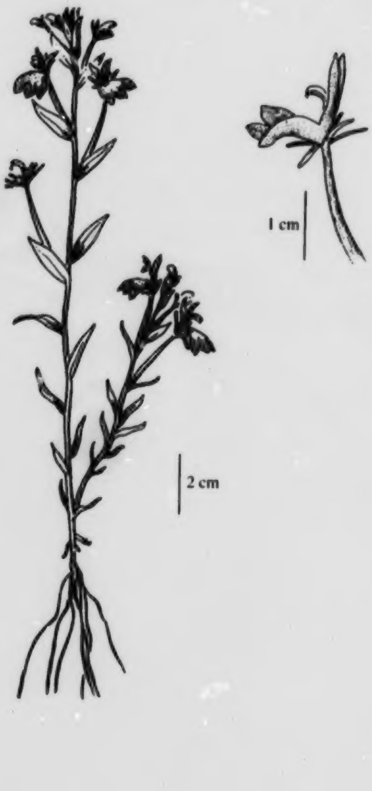
Downingia elegans **(Dougl.) Torr.**

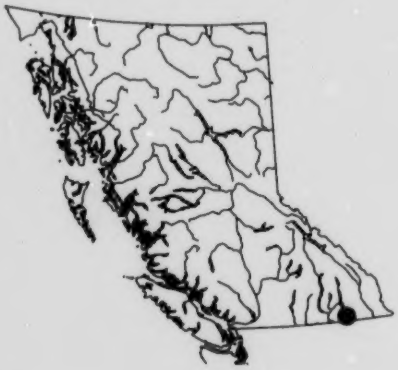
common downingia

Habitat/Range: Wet meadows, lakeshores and ponds in the montane zone (ICHdw); rare in SE BC, previously known only from Leach Lake (Creston area), now extirpated; S to NV and N CA.

Global/Provincial Rank: G5 SX Status: Red

Notes: The habitat (muddy shorelines) for this species was eliminated during a water-fowl enhancement project. For colour illustration see Clark (1976).



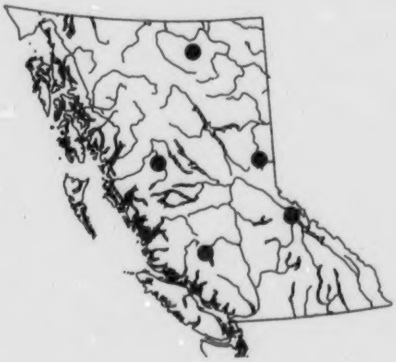


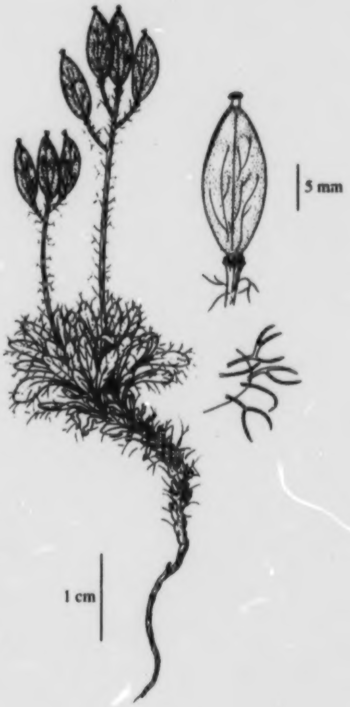
***Draba alpina* L.** (*D. alpina* var. *pilosa* [Adams] Regel, *D. pilosa* Adams *ex* DC.)

alpine draba; alpine rock-cress

Habitat/Range: Moist to mesic meadows, rocky slopes, and snowbeds in the subalpine and alpine zones (AT, ESSFmv2, SWBmk); rare in BC north of 51°N; N to AK, YT and NT, and E to PQ.

Global/Provincial Rank: G4G5 S2S3 Status: Blue



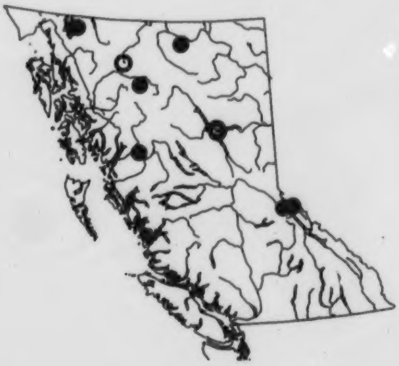


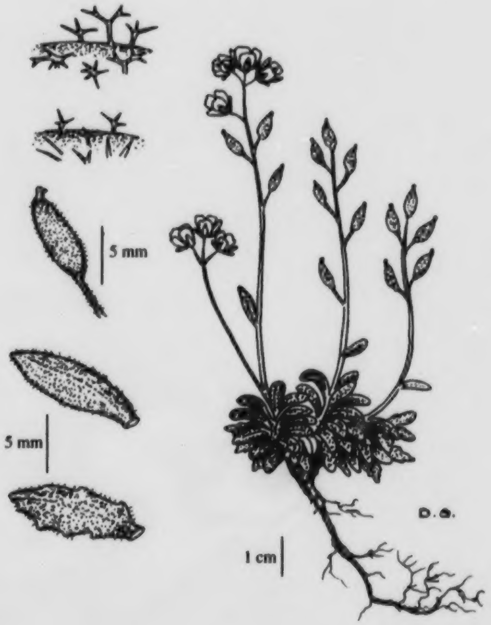
***Draba cinerea* J.E. Adams**

gray-leaved draba; gray-leaved whitlow-grass

Habitat/Range: Mesic to dry meadows and cliffs in the montane, subalpine and alpine zones (AT, BWBSdk1, SBSdh1, SWBun); rare in BC north of 53°N; circumpolar, N to AK, YT and NT and E to N PQ; Eurasia.

Global/Provincial Rank: G5 S2S3 Status: Blue



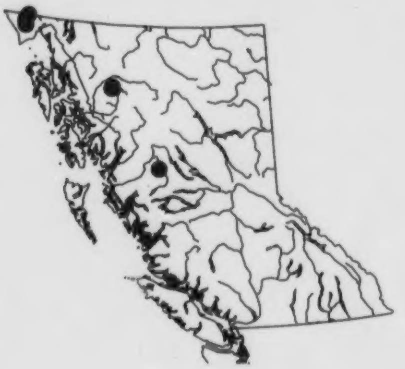


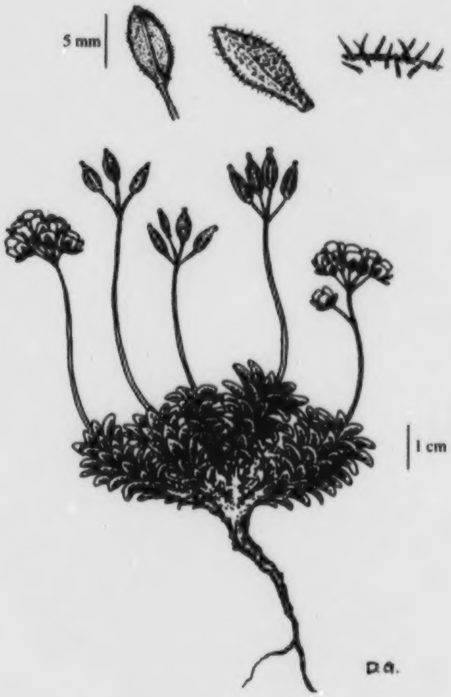
***Draba corymbosa* R. Br. *ex* DC.** (*D. bellii* Holm, *D. macrocarpa* J.E. Adams)

Baffin Bay draba; Baffin Bay whitlow-grass

Habitat/Range: Mesic to dry meadows in the alpine zone (AT); rare in NW BC; N to AK, YT and NT and E to PQ.

Global/Provincial Rank: G4G5 S2S3 Status: Blue



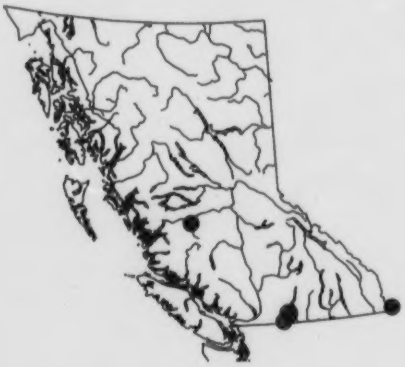


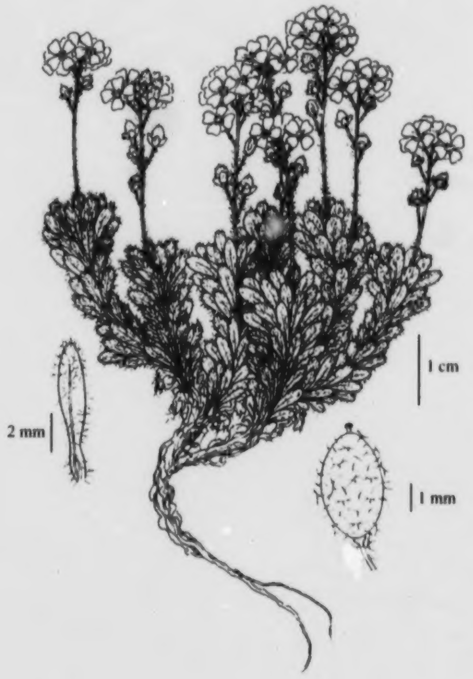
***Draba densifolia* Nutt.** (*D. stenopetala auct. non* Trautv.)

Nuttall's draba; Nuttall's whitlow-grass

Habitat/Range: Mesic to dry forest openings, meadows, rocky slopes and cliffs in the subalpine and alpine zones (AT, ESSFdkp, ESSFxcp); rare in SC, WC and SE BC; E to SW AB, S to WY, VT and CA, disjunct in AK.

Global/Provincial Rank: G5 S2S3 Status: Blue



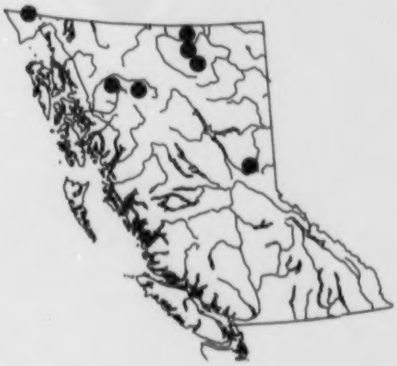


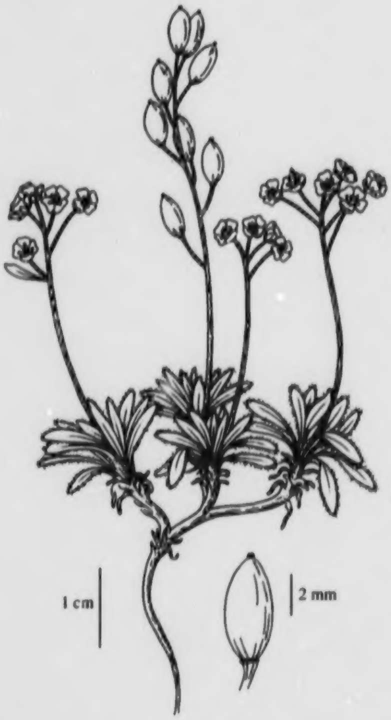
***Draba fladnizensis* Wulf.**

Austrian draba; Austrian whitlow-grass

Habitat/Range: Mesic to dry meadows, cliffs and talus slopes in the subalpine and alpine zones (AT, SWBmk, SWBun); rare in N BC; circumpolar, N to AK, YT and NT, E to AB and S to CO and UT; Eurasia.

Global/Provincial Rank: G4 S2S3 Status: Blue



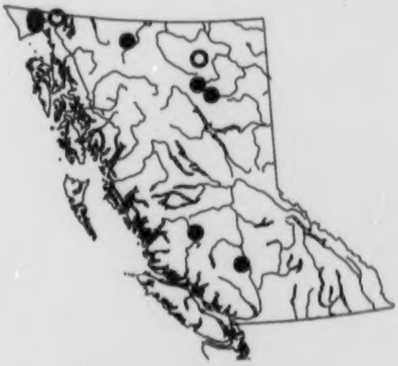


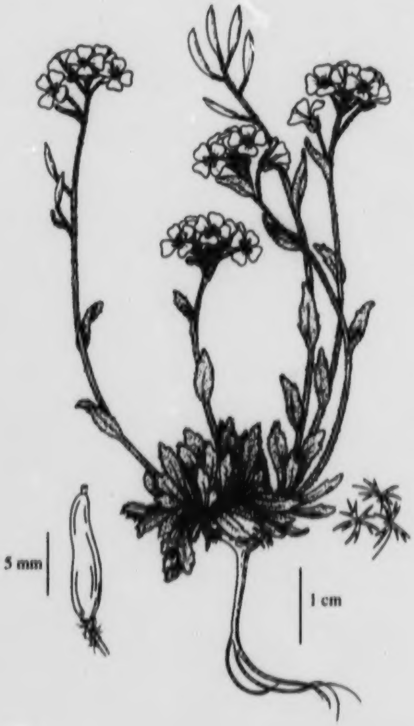
***Draba glabella* Pursh var. *glabella* (*D. hirta auct. non* L.)**

smooth draba; smooth whitlow-grass

Habitat/Range: Moist to mesic meadows and cliffs in the subalpine and alpine zones (AT, SWBun); rare in BC north of 51°N; circumpolar, N to AK, YT and NT and E to NF.

Global/Provincial Rank: G4G5T4 S2S3 Status: Blue



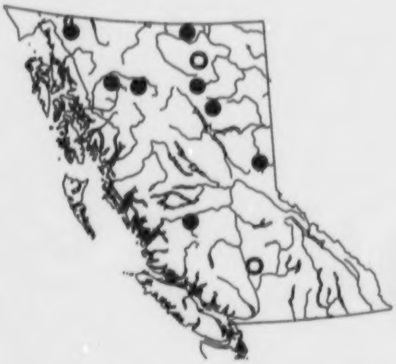


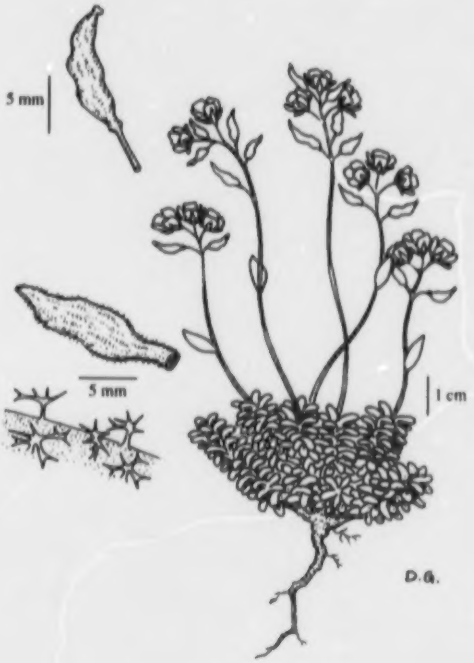
***Draba lactea* Adams** (*D. allenii* Fern.)

milky draba; milky whitlow-grass

Habitat/Range: Mesic to dry meadows and cliffs in the subalpine and alpine zones (AT, SWBmk, SWBun); rare in BC north of 52°N; circumboreal, N to AK, YT, and NT; Eurasia.

Global/Provincial Rank: G4 S2S3 Status: Blue





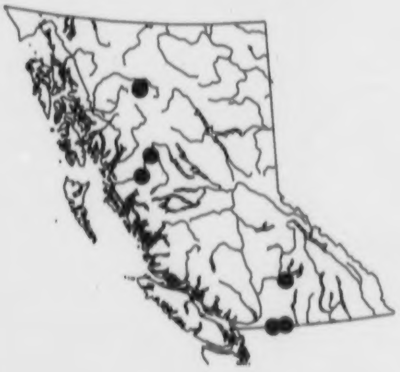
***Draba lonchocarpa* Rydb. var. *thompsonii* (C.L. Hitchc.) Rollins** (*D. nivalis* Lilj. var. *thompsonii* C.L. Hitchc.)

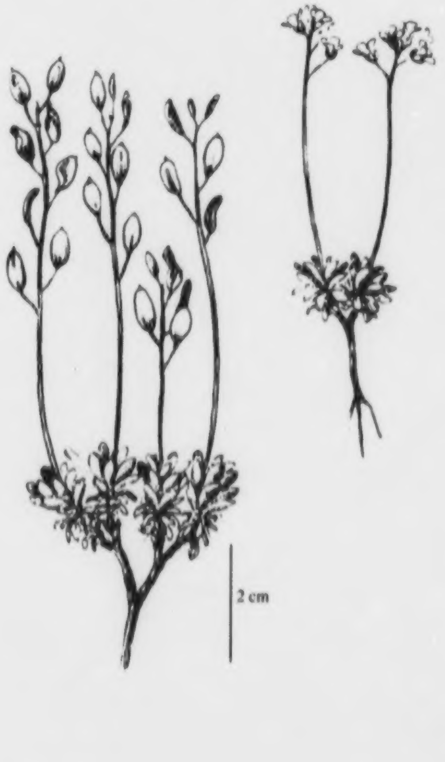
lance-fruited draba; spear-fruited draba, lance-fruited whitlow-grass

Habitat/Range: Mesic to dry meadows, cliffs and scree slopes in the alpine zone (AT); rare in and E of the Coast-Cascade Mountains and S of 58° N in BC; S to N WA.

Global/Provincial Rank: G4T3T4 S2S3 Status: Blue

Notes: For colour illustration see Taylor and Douglas (1995).





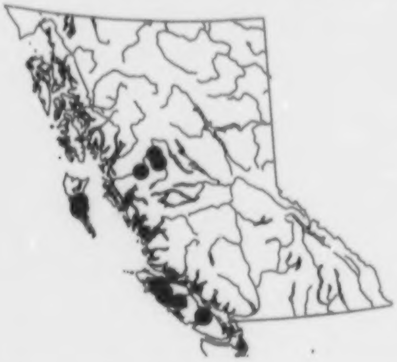
***Draba lonchocarpa* Rydb. var. *vestita* O.E. Schulz** (*D. lonchocarpa* var. *denudata* O.E. Schulz, *D. nivalis* Lilj. var. *denudata* [O.E. Schulz.] C.L. Hitchc.)

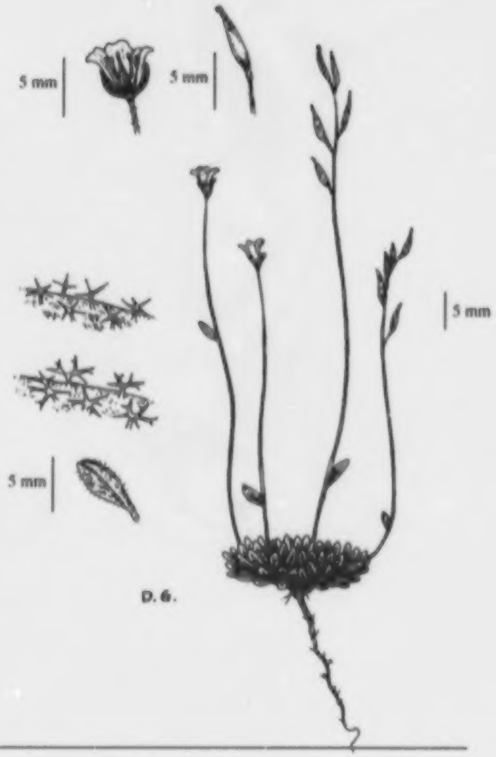
lance-fruited draba; spear-fruited draba, lance-fruited whitlow-grass

Habitat/Range: Mesic to dry meadows, cliffs and scree slopes in the subalpine and alpine zones (AT, ESSFwv, MHmm1, MHmm2, MHwh); rare in coastal BC (including the Queen Charlotte Islands) and WC BC; N to SC AK.

Global/Provincial Rank: G4T3 S2S3 Status: Blue

Notes: For colour illustration see Taylor and Douglas (1995).



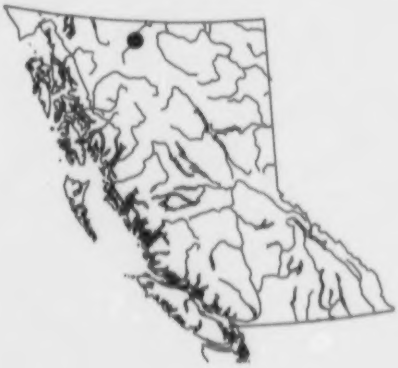


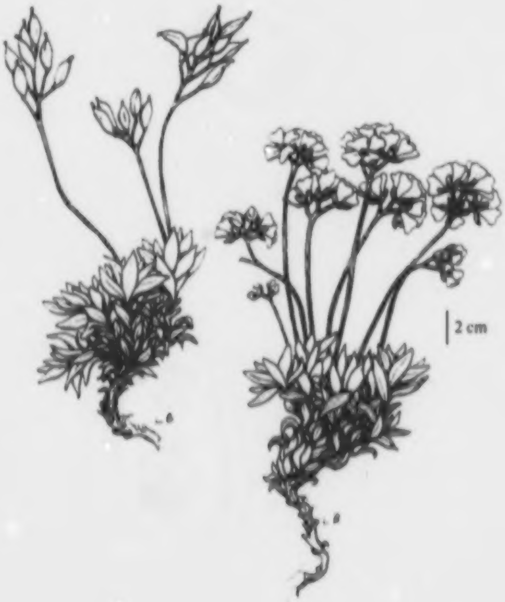
***Draba palanderiana* Kjellm.** (*D. caesia auct. non* M.F. Adams)

Palander's draba; Palander's whitlow-grass

Habitat/Range: Mesic to dry meadows and cliffs in the alpine zone (AT); rare in NW BC, known only from the Goodhope Lake area; N to AK, YT and W NT.

Global/Provincial Rank: G4G5 S2S3 Status: Blue



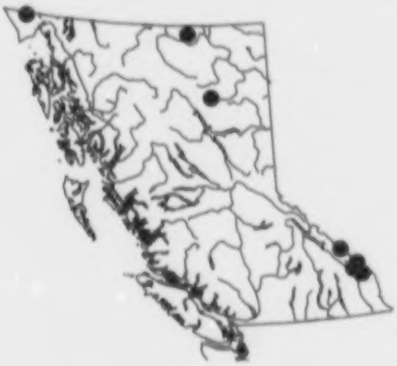


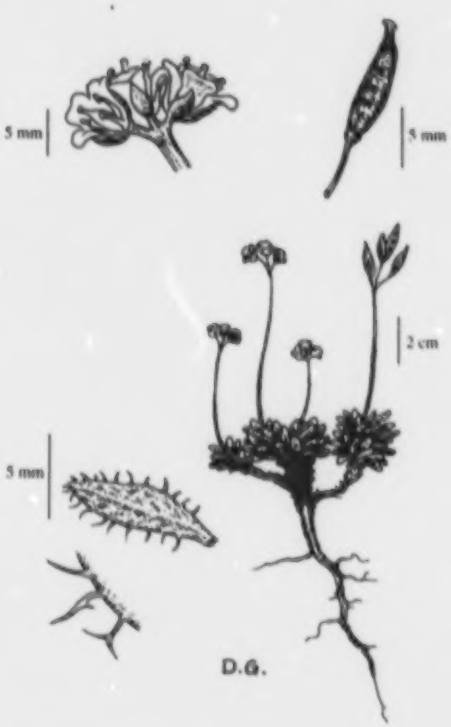
Draba porsildii **Mulligan**

Porsild's draba; Porsild's whitlow-grass

Habitat/Range: Mesic to dry talus slopes, scree slopes and cliffs in the subalpine and alpine zones (AT, SWBmk); rare in N and SE BC; N to AK, S YT and W NT and E to SW AB.

Global/Provincial Rank: G3G4 S2S3 Status: Blue



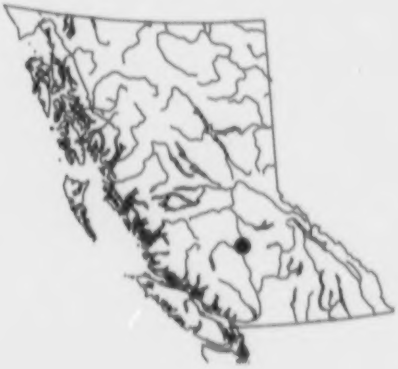


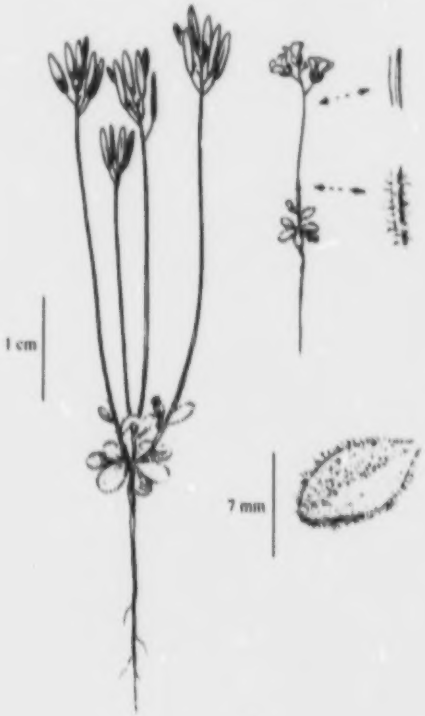
Draba reptans **(Lam.) Fern.**

Carolina draba; Carolina whitlow-grass

Habitat/Range: Dry, often calcareous, cliffs, rocky slopes and forest openings in the steppe zone (BGxw2); rare in SC BC, known only from Doc English Bluff (Williams Lake); E to AB and S to TX, GA, CO, NM, AZ and CA.

Global/Provincial Rank: G5 S1 Status: Red



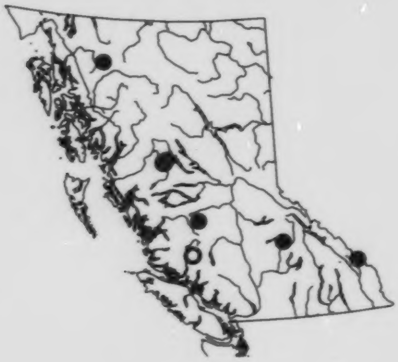


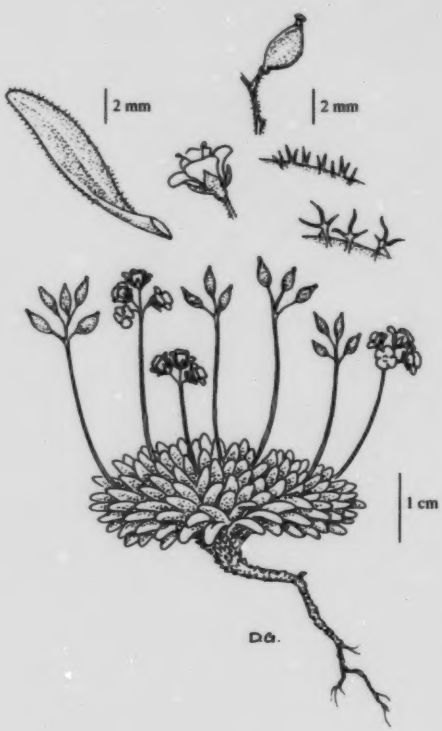
Draba ruaxes **Pays. & St. John** (*D. ventosa* A. Gray var. *ruaxes* [Pays. & St. John] C.L. Hitchc.)

coast mountain draba; coast mountain whitlow-grass

Habitat/Range: Dry meadows, cliffs, rocky slopes and scree slopes in the subalpine and alpine zones (AT, SBSdk); rare in and E of the Coast-Cascade Mountains and N of 51° N in BC, absent from NE BC; N to AK and YT and S to N WA.

Global/Provincial Rank: G3 S2S3 Status: Blue



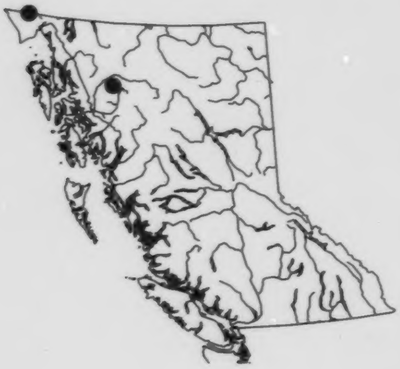


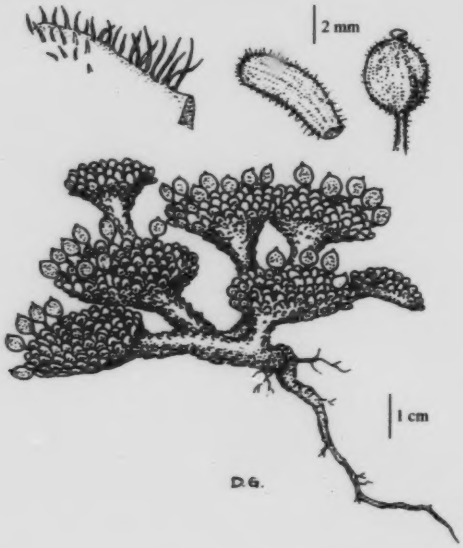
Draba stenopetala **Trautv.**

star-flowered draba; star-flowered whitlow-grass

Habitat/Range: Mesic to dry meadows, cliffs and scree slopes in the alpine zone (AT); rare in NW BC, known only from Mt. Edziza and Squaw Creek; amphiberingian, N to AK and YT; E Asia.

Global/Provincial Rank: G3 S1 Status: Red



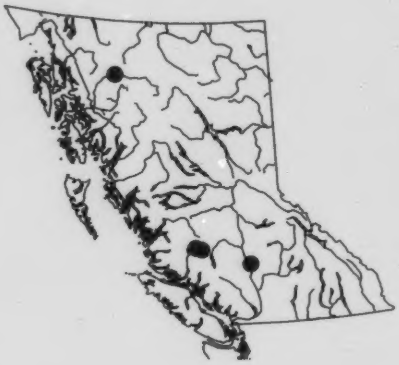


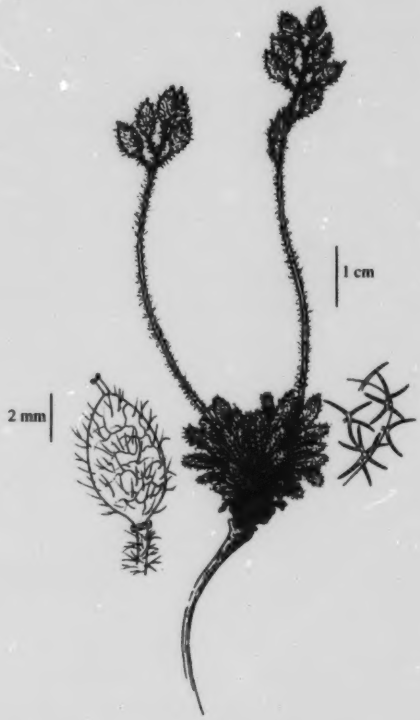
***Draba ventosa* A. Gray**

Wind River draba; Wind River whitlow-grass

Habitat/Range: Dry meadows, cliffs, rocky slopes and scree slopes in the alpine zone (AT); rare in C (Cariboo area) and NW BC; N to YT, E to SW AB and S to WY and UT.

Global/Provincial Rank: G3 S2S3 Status: Blue



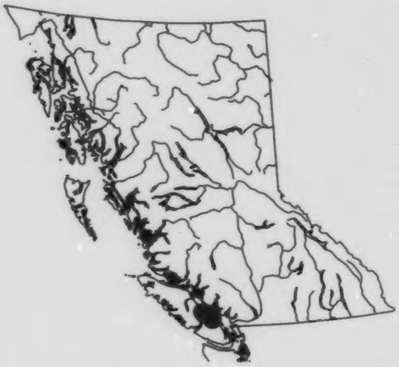


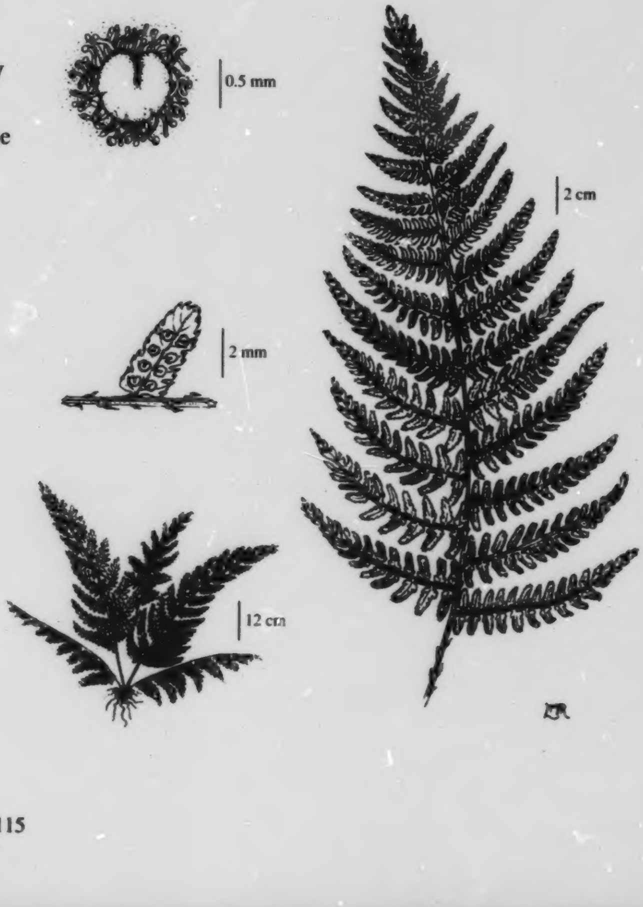
***Dryopteris arguta* (Kaulf.) Watt**

coastal wood fern

Habitat/Range: Mesic forest margins and rocky sea cliffs in the lowland zone (CDFmm); rare in SW BC; S to CA, disjunct in AZ.

Global/Provincial Rank: G5 S2S3 Status: Blue



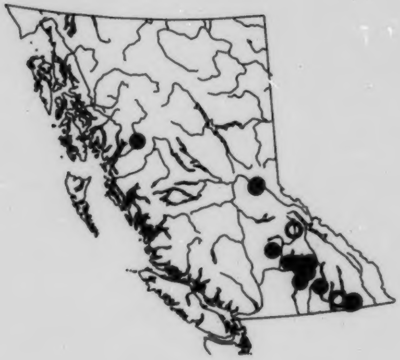


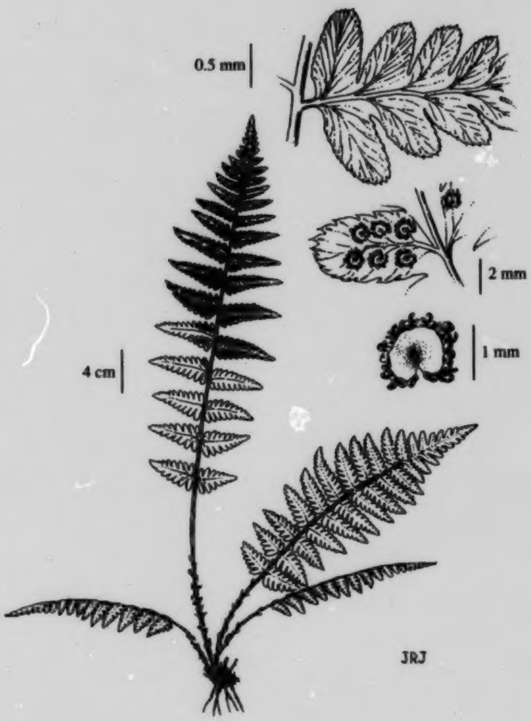
Dryopteris cristata **(L.) A. Gray**

crested wood fern

Habitat/Range: Swamps and wet meadows in the montane zone (ICHdw, ICHmc1, ICHmw2, ICHmw3, ICHvk2, ICHwk1, ICHxw, IDFmw2, IDFxh1, SBPSmk); rare in WC and S BC; circumpolar, E to NF and S to MA, NC, GA, AL, MO, ND, MT, ID and WA; Europe; W Asia.

Global/Provincial Rank: G5 S2S3 Status: Blue



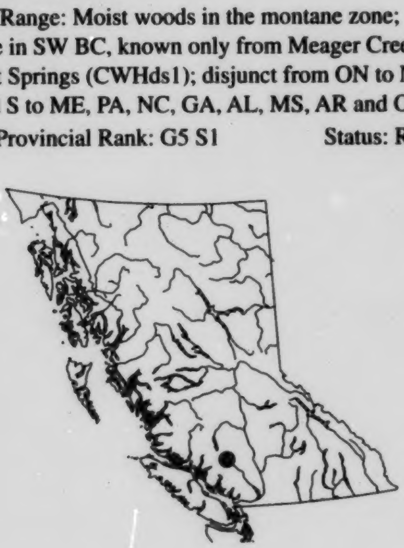


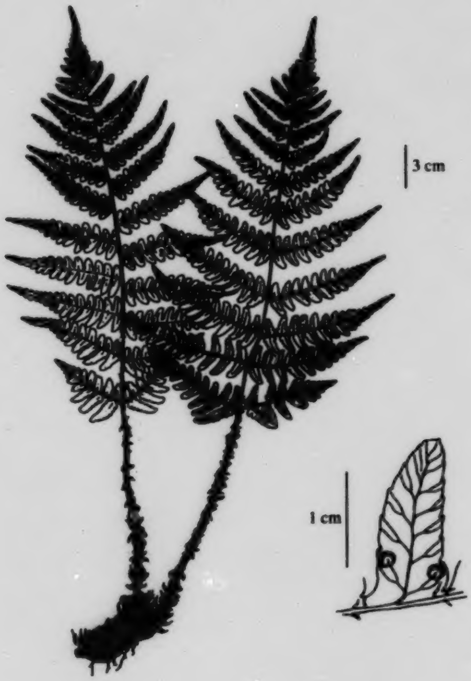
Dryopteris marginalis **(L.) A. Gray**

marginal wood fern

Habitat/Range: Moist woods in the montane zone; rare in SW BC, known only from Meager Creek Hot Springs (CWHds1); disjunct from ON to NF and S to ME, PA, NC, GA, AL, MS, AR and OK.

Global/Provincial Rank: G5 S1 Status: Red



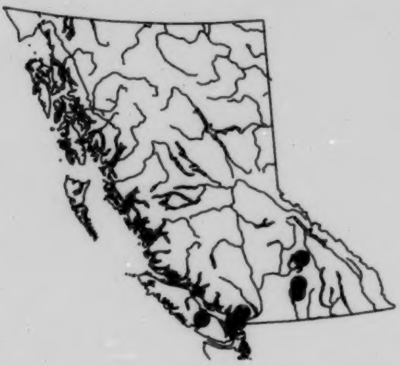


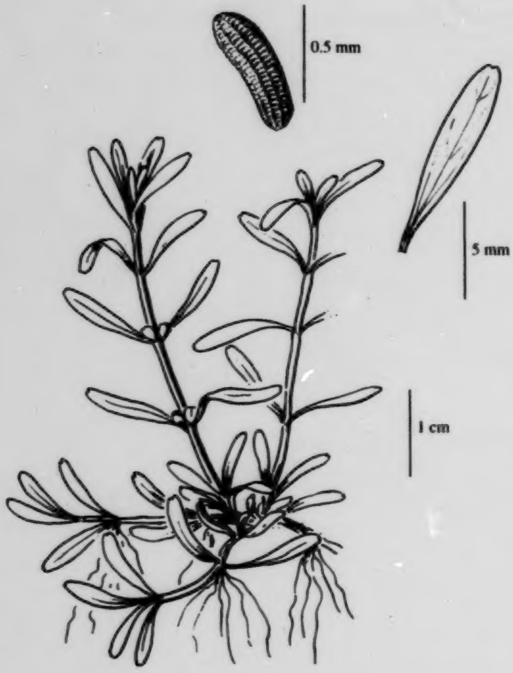
***Elatine rubella* Rydb.** (*E. triandra auct. non* Schkuhr)

three-flowered waterwort

Habitat/Range: Wet ditches, mudflats and shallow ponds and shorelines in the lowland, steppe and montane zones (BGxh1, CDFmm, CWHdm, CWHxm1, CWHxm2, ICHmw3, IDFxh1a); rare in extreme SW and SC BC; E to NB and S to MO, VA, TX, NM, CO and CA.

Global/Provincial Rank: G5 S2S3 Status: Blue



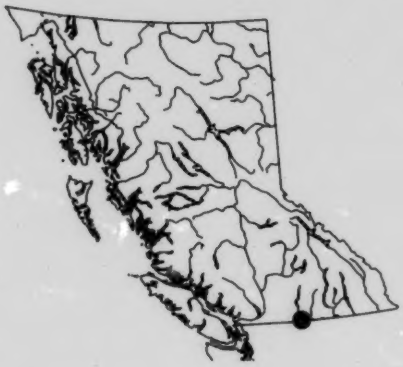


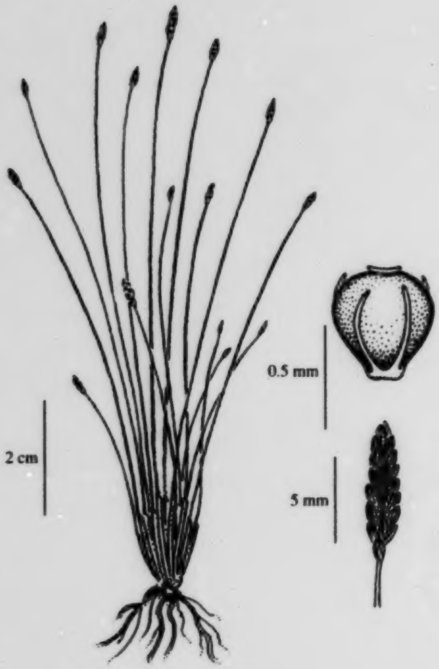
***Eleocharis atropurpurea* (Retz.) J. & K. Presl**

purple spike-rush

Habitat/Range: Shallow water and moist lakeshores in the steppe zone (BGxh1); rare in SC BC, known only from Osoyoos Lake; pantropical, disjunctly S to NC, FL, LA, TX, NM and CA; Eurasia, Africa, S America.

Global/Provincial Rank: G4G5 S1 Status: Red



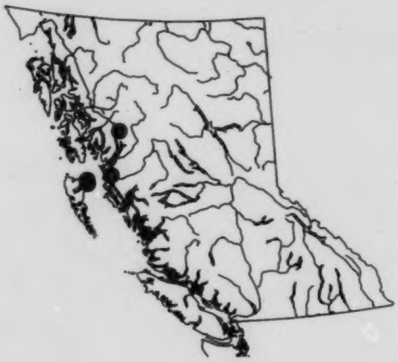


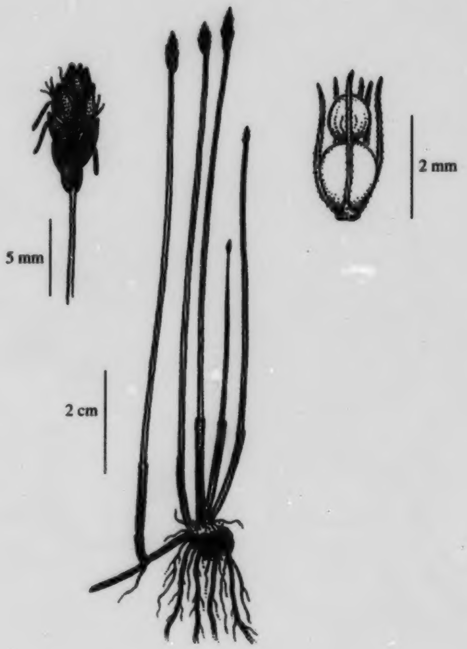
Eleocharis kamtschatica (C.A. Mey.) Komarov

Kamchatka spike-rush

Habitat/Range: Marshes, wet meadows and bog margins in the lowland zone (CWHvh2, CWHwh1, CWHwm); rare on N Vancouver Island, N Queen Charlotte Islands and adjacent N coast; amphiberingian, N to AK and disjunct to ON, PQ and NF; E Asia.

Global/Provincial Rank: G4 S2S3 Status: Blue



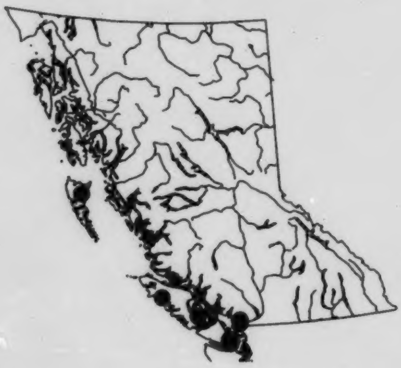


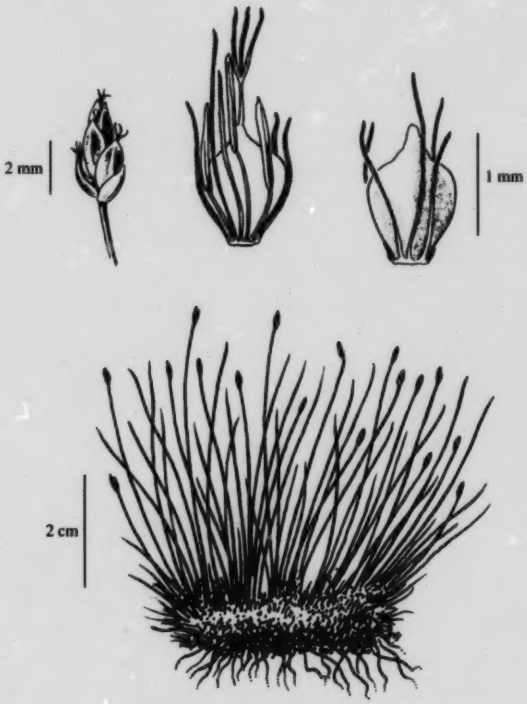
Eleocharis parvula (Roem. & J.A. Schult.) Link *ex* Bluff, Nees & Schauer

small spike-rush

Habitat/Range: Coastal salt marshes, mudflats and sandy shores in the lowland zone (CDFmm, CWHvm1, CWHwh1, CWHxm1, CWHxm2); rare on S Vancouver Island, the Queen Charlotte Islands, and in the lower mainland; circumpolar, E to NF and S to ME, MA, NY, NC, FL, MS, TX, NM, AZ, CA and MX; Europe.

Global/Provincial Rank: G5 S2S3 Status: Blue



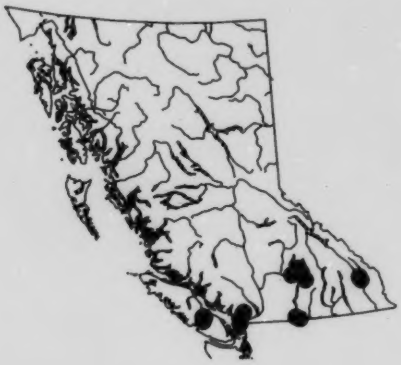


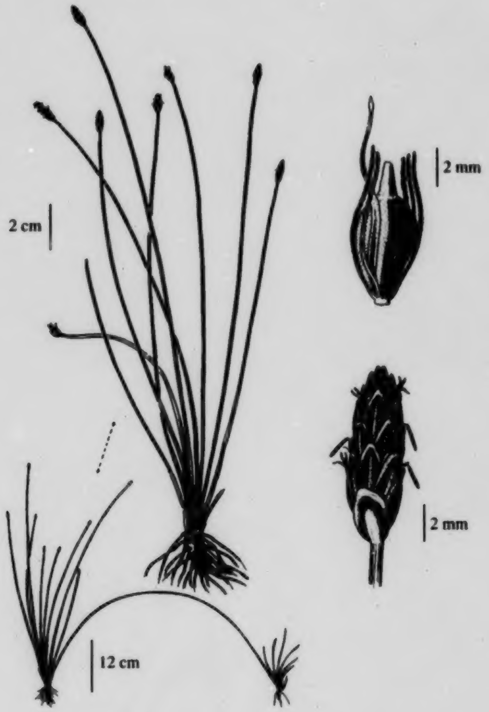
Eleocharis rostellata **(Torr.) Torr.**

beaked spike-rush

Habitat/Range: Salt marshes, hot springs and alkaline or saline pond edges in the lowland and montane zones (CDFmm, CWHdm, CWHxm2, ICHmw2, IDFdm2, IDFmw2, MSdm2, MSxk); rare in S BC; disjunct E to ON and NS and S to MA, NJ, FL, TX, NM, AZ and CA; S America.

Global/Provincial Rank: G5 S2S3 Status: Blue



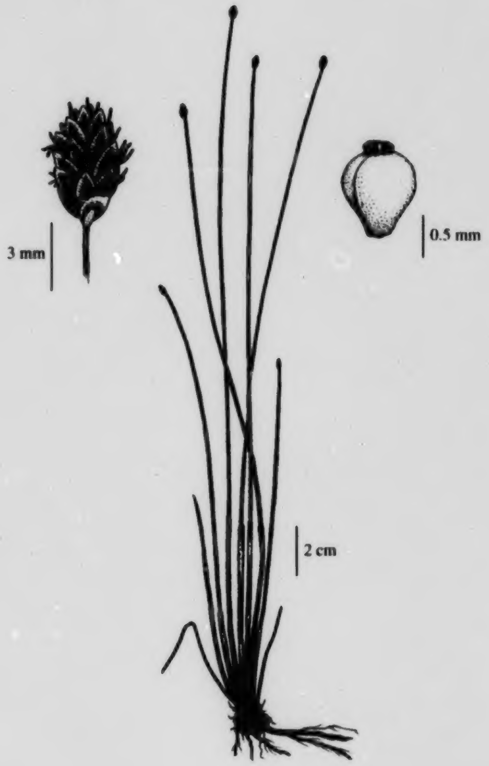


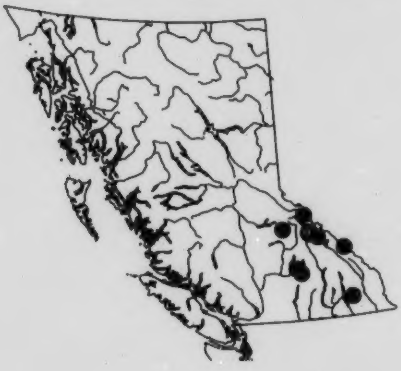
Eleocharis tenuis **(Willd.) J.A. Schult.** (*E. compressa* Sullivant, *E. elliptica* Kunth, *E. nitida* Fern. var. *borealis* [Svens.] Gleason)

slender spike-rush

Habitat/Range: Lakeshores, streamsides and wet meadows in the montane to alpine zones (AT, ESSFdk, ESSFwc2, ICHmw1, ICHmw2, ICHwk1, IDFmw2); rare in S BC east of the Coast-Cascade Mountains and S of 53° N; N to SW AK, E to NF and S to ME, MA, NC, GA, MS, TX, NM, ID and WA.

Global/Provincial Rank: G5 S2S3 Status: Blue



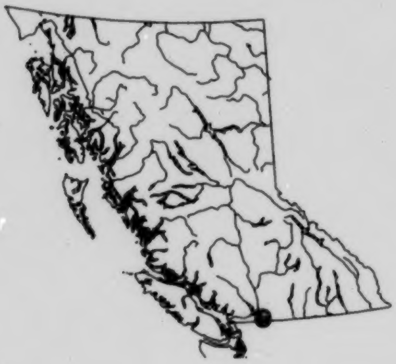


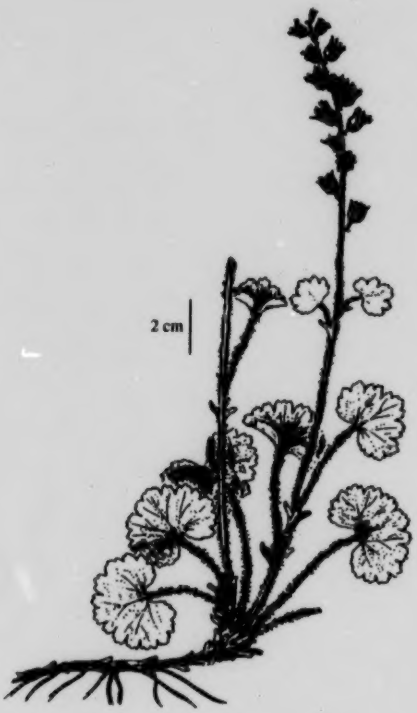
Elmera racemosa **(S. Wats.) Rydb. var. *racemosa***

elmera

Habitat/Range: Mesic rock crevices and cliffs in the subalpine and alpine zones (AT, ESSFmwp); rare in SW BC; S to S WA.

Global/Provincial Rank: G4G5T4 S2S3 Status: Blue



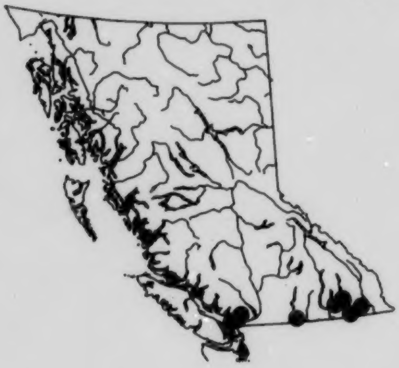


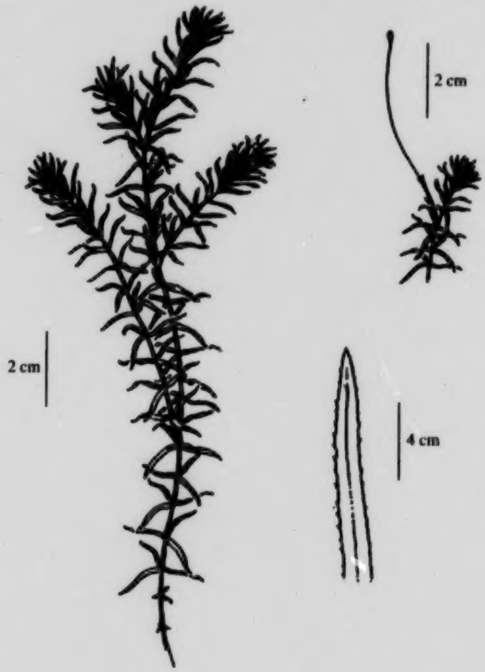
Elodea nuttallii **(Planch.) St. John** (*Anacharis nuttallii* Planch.)

Nuttall's waterweed

Habitat/Range: Lakes, ponds and streams in the lowland, steppe and montane zones (BGxh1, CWHdm, ICHdw, ICHmk1, ICHxw); rare in S BC; E to ON and SW PQ and S to MA, PA, NC, AL, AR, OK, NM, ID and CA.

Global/Provincial Rank: G5 S2S3 Status: Blue



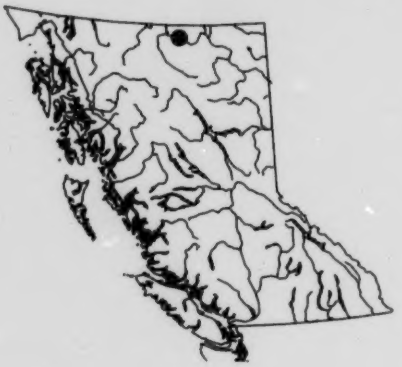


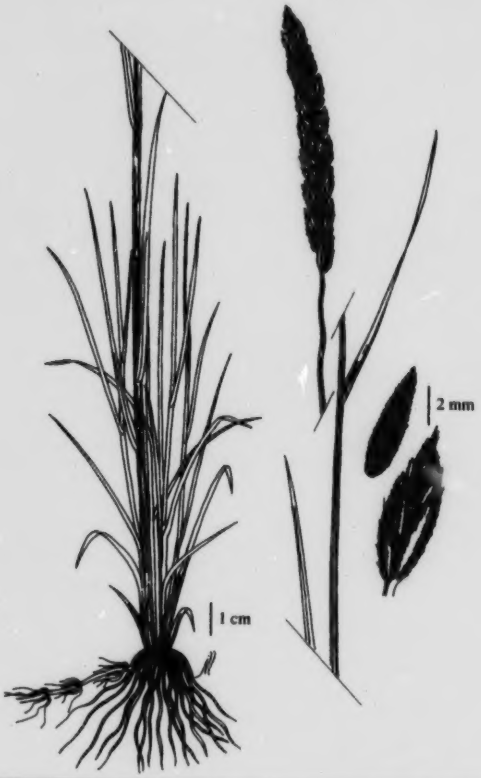
Elymus calderi **Barkw.** (*Agropyron yukonense auct. non* Scribn. & Merr., *E.* x *yukonensis auct. non* [Scribn. & Merr.] A. Löve, *E. lanceolatus* ssp. *yukonensis auct. non* [Scribn. & Merr.] A. Löve)

Calder's wildrye

Habitat/Range: Mesic to dry, sometimes alkaline, sandy or gravelly river terraces, floodplains, and grassy slopes in the montane zone (BWBSdk2); rare in N BC, known only from Liard Hot Springs; N to AK and YT.

Global/Provincial Rank: G? S2S3 Status: Blue



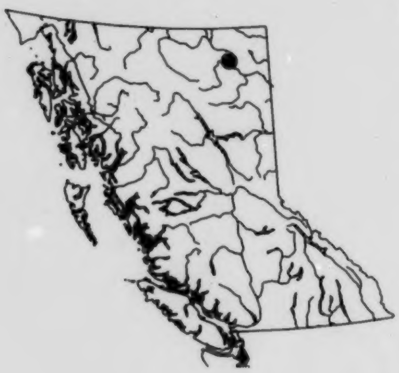


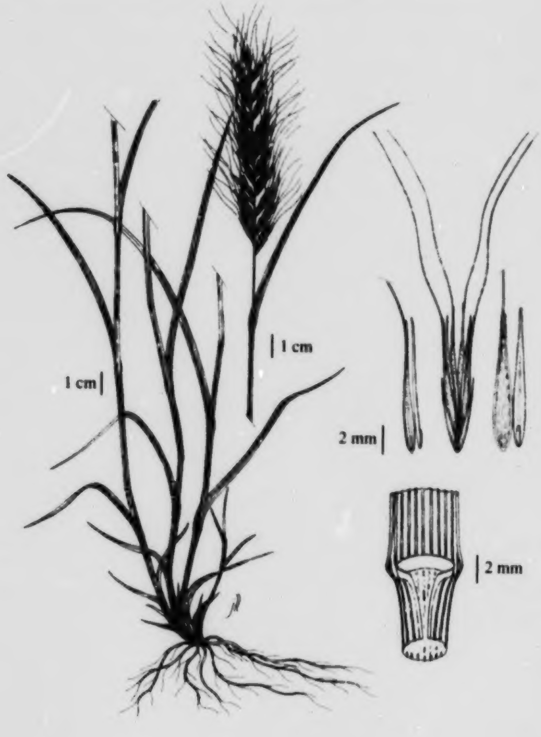
Elymus sibiricus **L.**

Siberian wildrye

Habitat/Range: Mesic sandy or gravelly river bars and floodplains in the montane zone (BWBSmw2); rare in N BC; N to AK, YT and NT.

Global/Provincial Rank: G? S2S3 Status: Blue





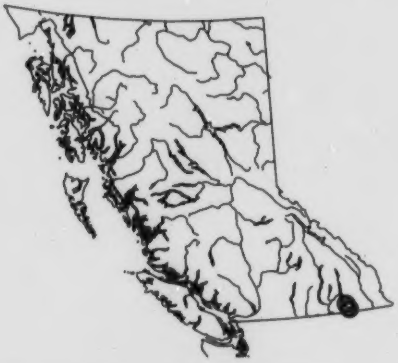
Elymus virginicus **L. var.** ***submuticus*** **Hook.** (*E. submuticus* [Hook.] Smyth & Smyth)

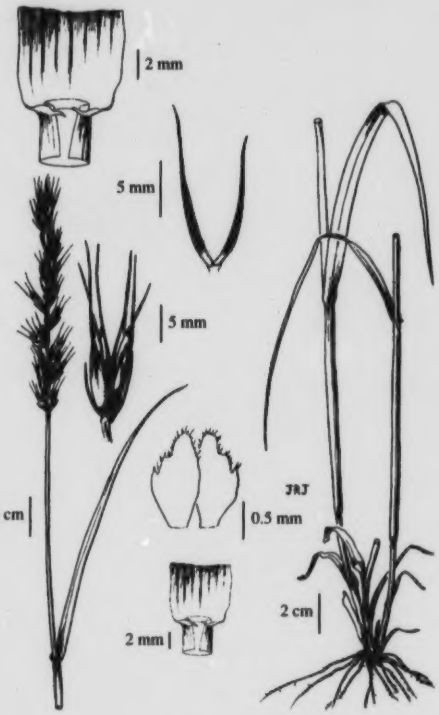
beardless wildrye

Habitat/Range: Moist forests or lakeshores in the montane zone (ICHxw); rare in SE BC, known only from Creston and Kuskonook; E to PQ and S to MA, PA TN, MS, OK, NM, UT and NE WA.

Notes: This species was overlooked in herbaria collections by Douglas *et al.* (1994, 2001b). It was last collected in BC in 1944.

Global/Provincial Rank: G5T4T5 SH Status: Red





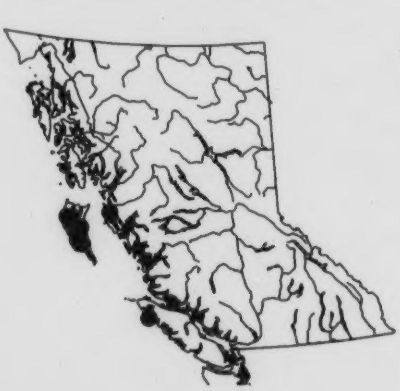
Enemion savilei **(Calder & Tayl.) Keener** (*Isopyrum savilei* Calder & Tayl.)

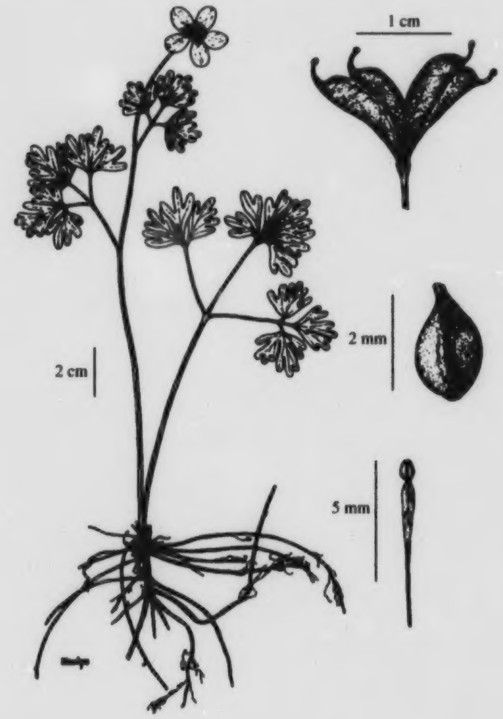
Queen Charlotte false rue-anemone; Queen Charlotte isopyrum

Habitat/Range: Moist shady cliffs, rocky gullies and talus slopes from the lowland to alpine zones (AT, CWHvh1, CWHvh2, CWHwh1, MHwh); rare on N Vancouver Island, the Queen Charlotte Islands and adjacent coast (Porcher Island); endemic.

Global/Provincial Rank: G3 S2S3 Status: Blue

Notes: For colour illustration see Pojar and MacKinnon (1994).



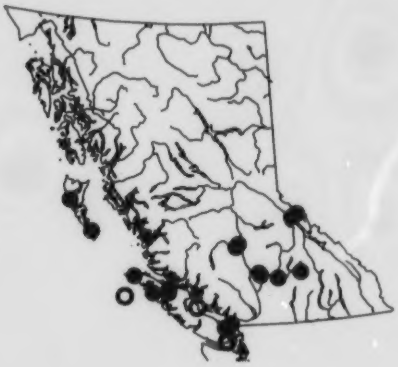


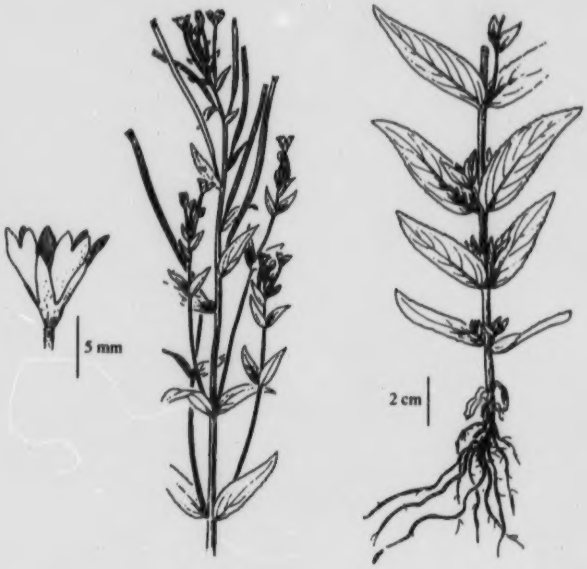
Epilobium ciliatum Raf. ssp. _watsonii_ (Barbey) Hoch & Raven (*E. watsonii* Barbey var. *franciscanum* [Barbey] Jeps., *E. watsonii* var. *watsonii*)

purple-leaved willowherb

Habitat/Range: Wet to mesic disturbed areas, roadsides, fields and ditches from the lowland to montane zones (CDFmm, CWHvh1, CWHvh2, CWHvm1, CWHwh1, CWHxm1, CWHxm2, ICHmw2, IDFxm, SBSdh); rare on Vancouver Island and S BC; S to ID and CA.

Global/Provincial Rank: G5T? S2S3 Status: Blue



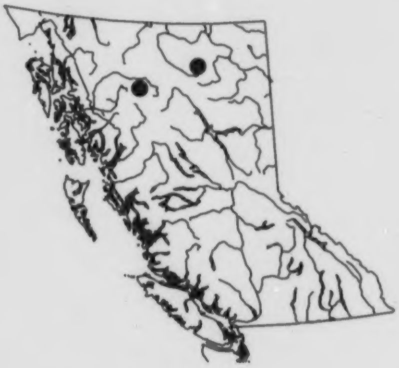


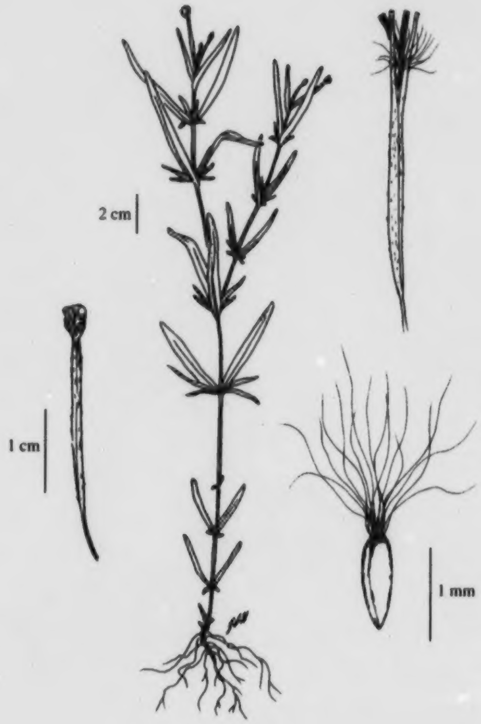
Epilobium davuricum Fisch. _ex_ Hornem.

northern swamp willowherb

Habitat/Range: Wet meadows and bogs in the subalpine and alpine zones (AT, SWBun); rare in N BC; circumpolar, N to AK and YT and E to NF; Eurasia.

Global/Provincial Rank: G5 S2S3 Status: Blue



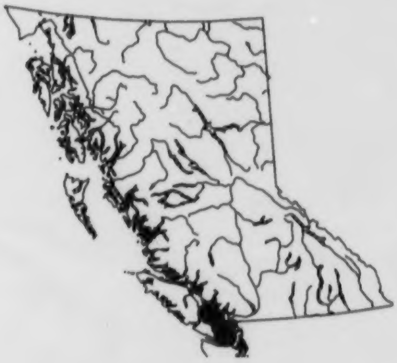


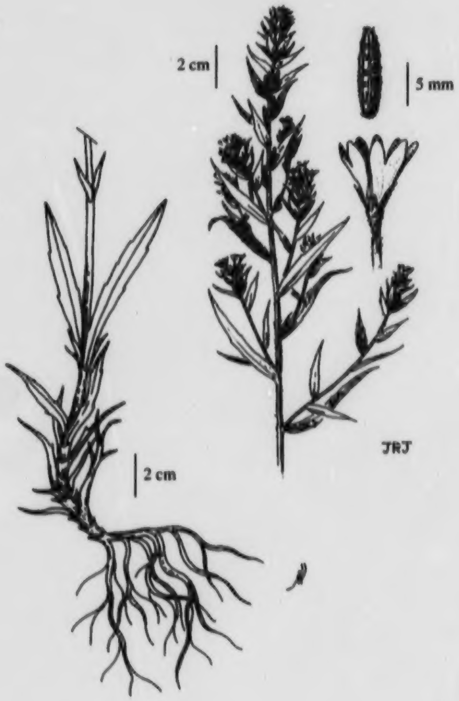
***Epilobium densiflorum* (Lindl.) Hoch & Raven**
(*Boisduvalia densiflora* [Lindl.] S. Wats.)

dense spike-primrose

Habitat/Range: Moist to dry meadows, roadsides and waste areas in the lowland zone (CDFmm); rare on S Vancouver Island; E to AB and S to MT, ID, NV, CA and MX.

Global/Provincial Rank: G5 S2 Status: Red



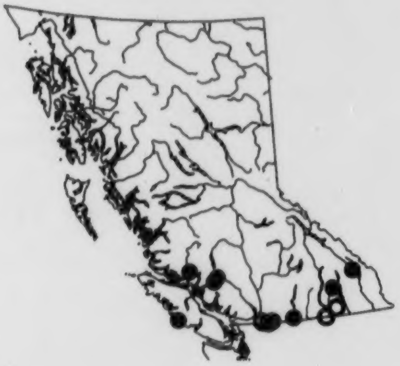


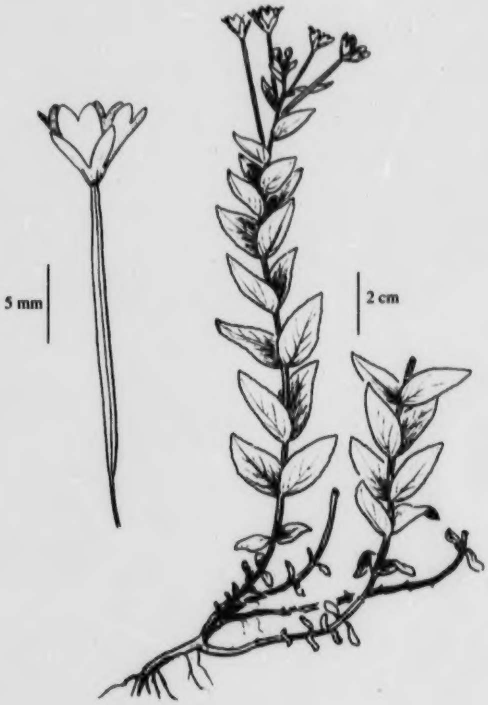
***Epilobium glaberrimum* Barbey ssp. *fastigiatum* (Nutt.) Hoch & Raven**

smooth willowherb

Habitat/Range: Moist streambanks, scree slopes and open forests in the lowland to alpine zones (AT, CWHds1, CWHvh1, ESSFmw, ICHdw, ICHmw2, IDFun, IDFww, MSxk); rare in S BC; E to AB and S to MT, UT and CA.

Global/Provincial Rank: G5T? S2S3 Status: Blue



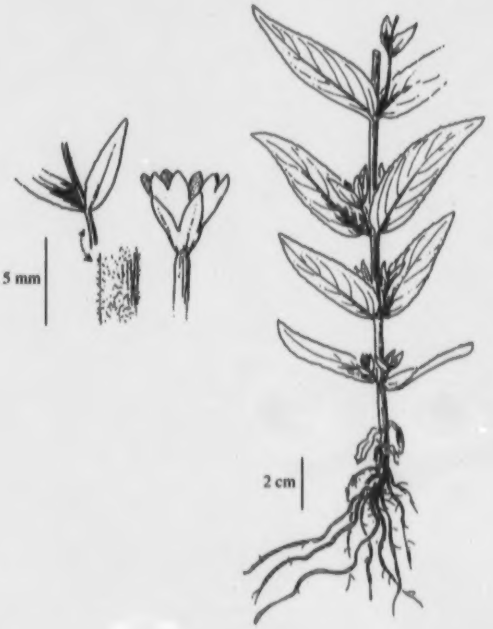


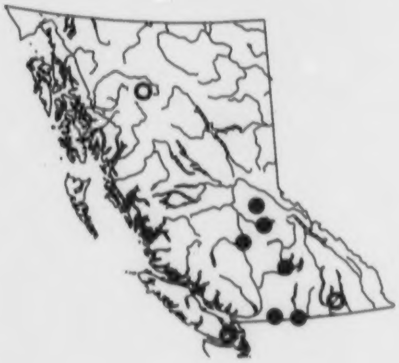
Epilobium halleanum **Hausskn.** (*E. glandulosum* Lehm. var. *tenue* [Trel.] C.L. Hitchc.)

Hall's willowherb

Habitat/Range: Moist slopes and open forests in the steppe, lowland, montane and subalpine zones (BGxh1, BGxw2, CDFmm, ESSFdcp2, ICHdw, ICHwk2, SBSwk1, SWBun); rare throughout BC; E to W SK and S to SD, CO, AZ and CA.

Global/Provincial Rank: G5 S2S3 Status: Blue



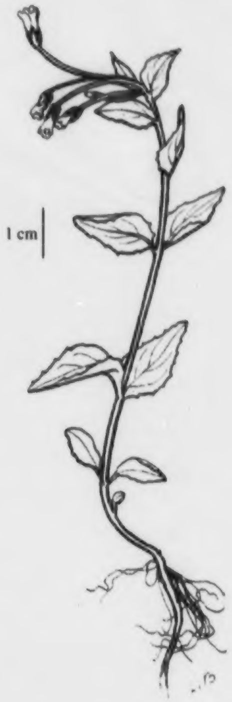


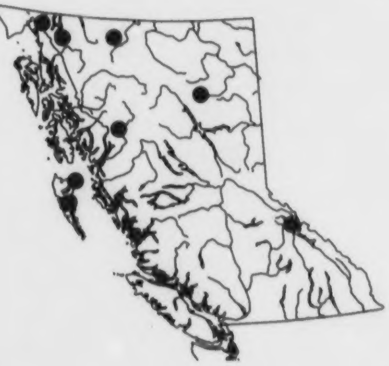
Epilobium hornemannii **Reichenb. ssp.** ***behringianum*** **(Hausskn.) Hoch & Raven** (*E. behringianum* Hausskn., *E. boreale* Hausskn.)

Hornemann's willowherb

Habitat/Range: Wet to moist rocky cliffs, meadows, thickets, and river banks in the montane and subalpine zones (CWHwh1, ICHmm, ICHvc, SWBmk, SWBun); rare on the Queen Charlotte Islands and in BC north of 52° N; circumboreal, N to AK, YT and NT, E to PQ and NF and S to ME, NM and CA; E Asia.

Global/Provincial Rank: G5T4 S2S3 Status: Blue



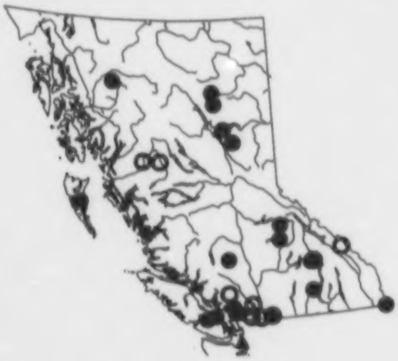


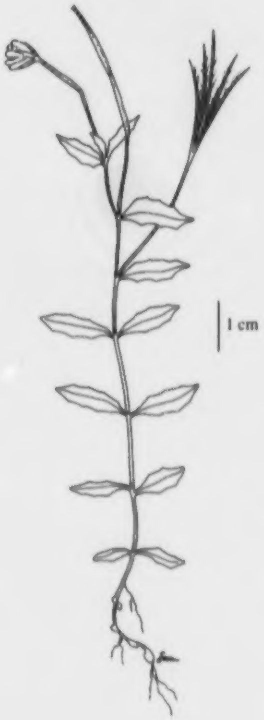
Epilobium leptocarpum Hausskn.

small-flowered willowherb

Habitat/Range: Moist meadows and streambanks in the montane to alpine zones (AT, CWHdm, CWHds1, CWHvm2, CWHwh1, CWHxm1, CWHxm2, ESSFmw, ESSFwc4, ESSFwk2, ESSFxv2, ICHmc1, ICHmc2, ICHmw3, ICHwk1, MSdk, SBSwk2, SWBmk); rare throughout BC; N to AK and S to MT, ID and OR.

Global/Provincial Rank: G5 S2S3 Status: Blue



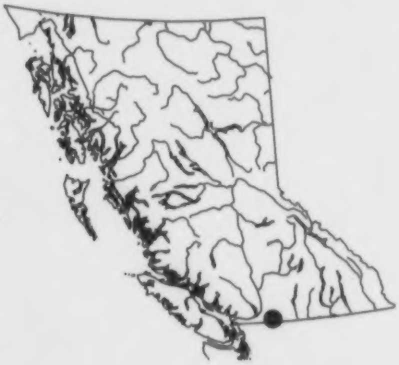


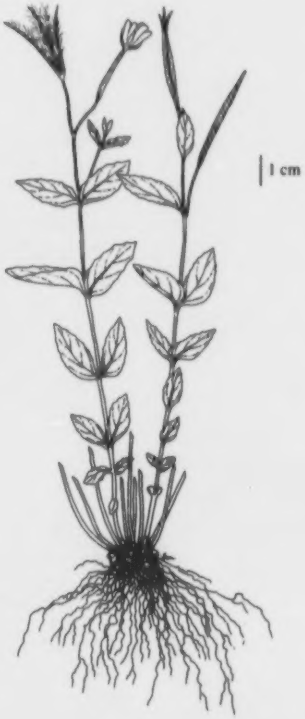
Epilobium mirabile Trel. _ex_ Piper

hairy-stemmed willowherb

Habitat/Range: Moist scree slopes in the montane and subalpine zones (ESSFmw); rare in SW BC (Cascade Mountains); E to SW AB and S to MT and W WA.

Global/Provincial Rank: G4Q S2S3 Status: Blue



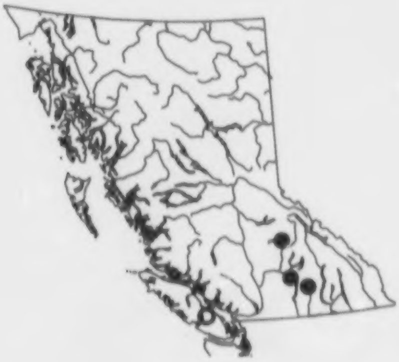


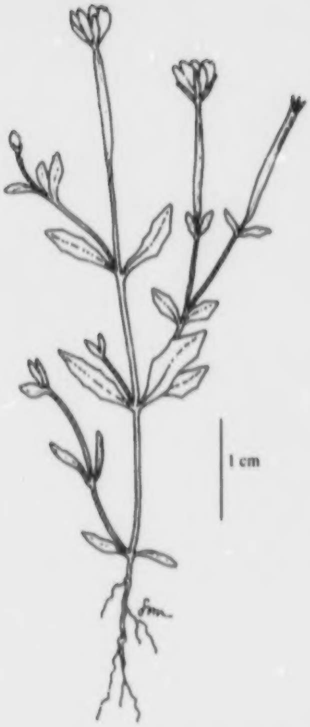
Epilobium oregonense Hausskn. (*E. alpinum* L. var. *gracillimum* [Trel.] C.L. Hitchc.)

Oregon willowherb

Habitat/Range: Moist slopes, boggy areas and open forests in the montane zone (ESSFxc, ICHmw3, IDFxh2a, MHmm1); rare on Vancouver Island and in SC BC; S to ID, WY and CA.

Global/Provincial Rank: G5 S2S3 Status: Blue





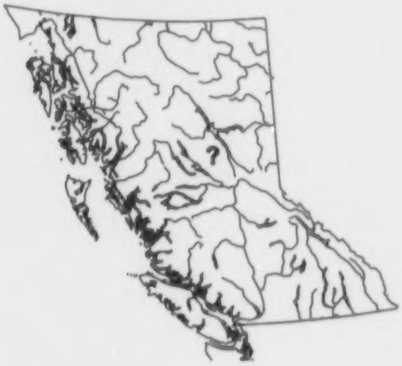
Epilobium pygmaeum (Speg.) Hoch & Raven (*Boisduvalia glabella* [Nutt.] Walp.)

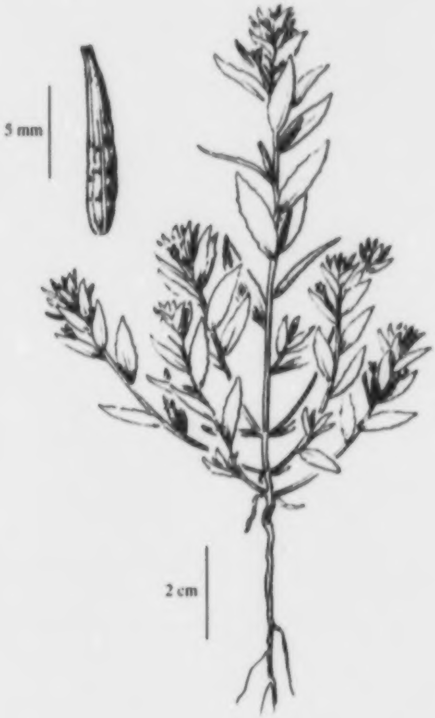
smooth spike-primrose

Habitat/Range: Vernally moist sites in the steppe zone (BGxh2); rare in S BC east of the Coast-Cascade Mountains; E to SK and S to SD, UT, NV and CA; South America.

Global/Provincial Rank: G5 SH Status: Red

Notes: This species was last collected in 1921 at Douglas Lake. The precise location remains uncertain since several Douglas Lakes occur in S BC.



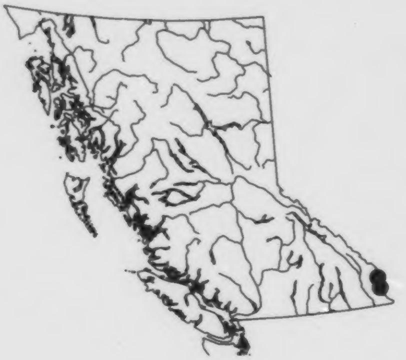


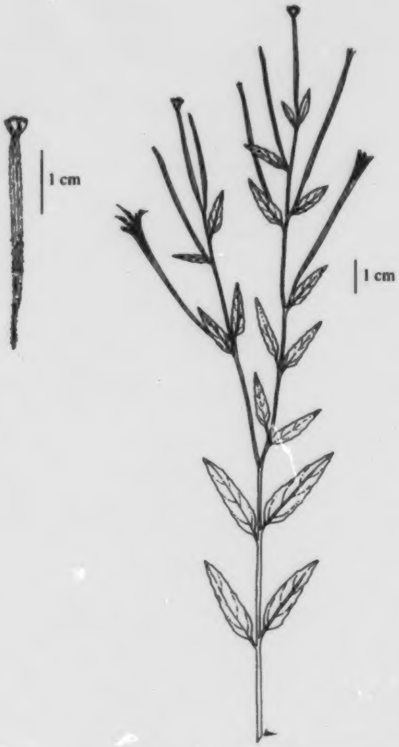
Epilobium saximontanum **Hausskn.**

Rocky Mountain willowherb

Habitat/Range: Moist meadows and streambanks in the montane zone (ESSFdk, MSdk); rare in SE BC, known recently only from Ewin Creek; E to PQ and NF and S to NM, CA and E OR.

Global/Provincial Rank: G5 S2S3 Status: Blue





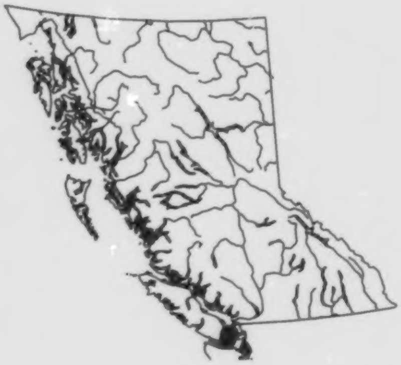
Epilobium torreyi **(S. Wats.) Hoch & Raven**

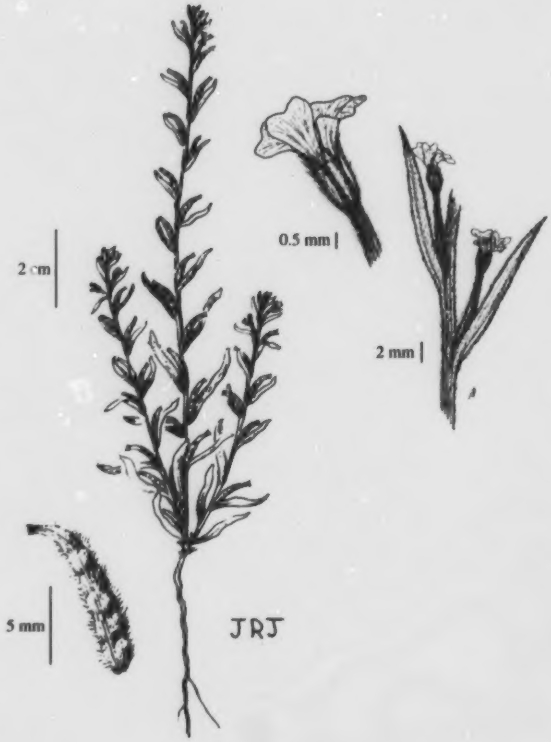
(*Boisduvalia stricta* [A. Gray] Greene)

brook spike-primrose

Habitat/Range: Moist grasslands and open slopes in the lowland zone (CDFmm); rare on SE Vancouver Island; S to ID, NV and CA.

Global/Provincial Rank: G5 S1 Status: Red





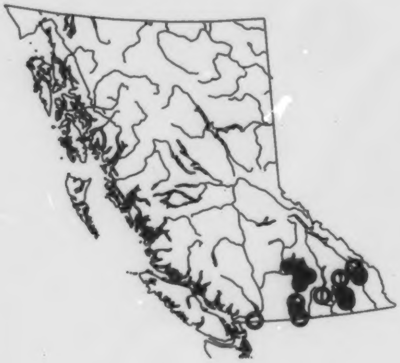
Epipactis gigantea **Dougl. *ex* Hook.**

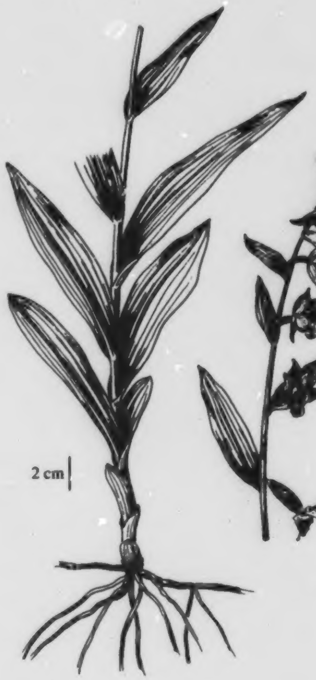
giant helleborine; stream orchid

Habitat/Range: Moist streambanks, calcareous fens, marshes and swamps, and around hot springs in the steppe, lowland and montane zones (BGxh1, CWHdm, ICHdw, ICHmw2, ICHxw, IDFdm2, IDFmw2, IDFxh1, IDFxh1a, PPxh1); rare in S BC; S to TX, NM, AZ, and CA.

Global/Provincial Rank: G3 S2S3 Status: Blue

Notes: For colour illustration see Shaw and On (1991) and Williams and Williams (1983).





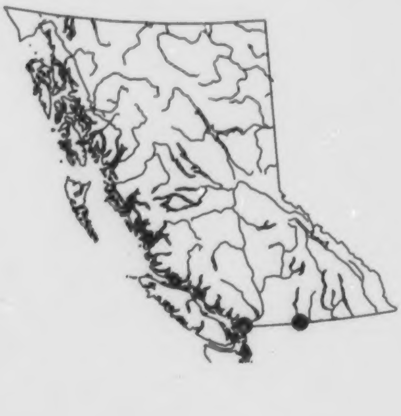
Eragrostis pectinacea **(Michx.) Nees**

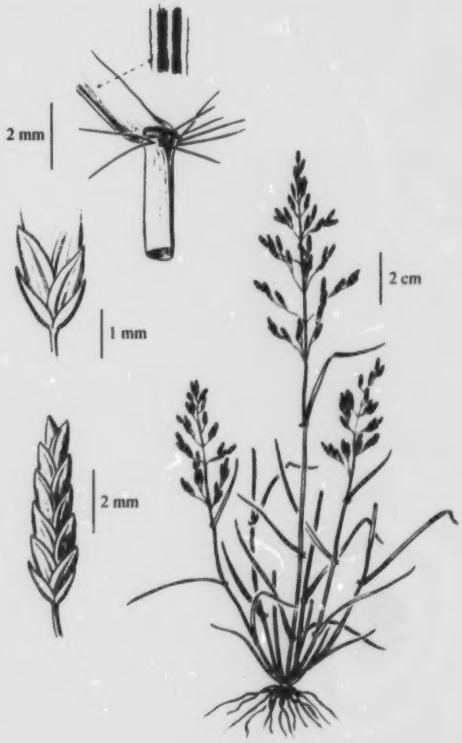
tufted lovegrass

Habitat/Range:

Moist to dry sandy roadsides and waste places in the lowland and steppe zones (BGxh1); rare in SW (where probably introduced) and SC BC; disjunctly E to ON, PQ and NS and S to ME, MA, PA, SC, FL, MS, LA, TX, NM, AZ and CA.

Global/Provincial Rank: G5 S1 Status: Red





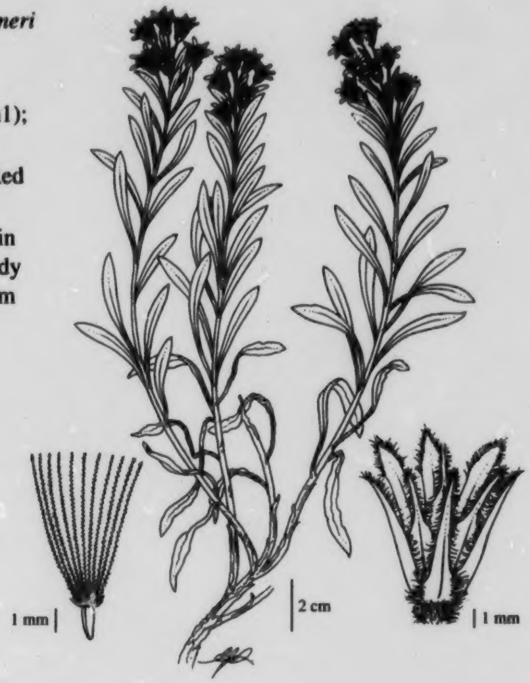
Ericameria bloomeri (A. Gray) J.F. Macbr. (*Haplopappus bloomeri* A. Gray)

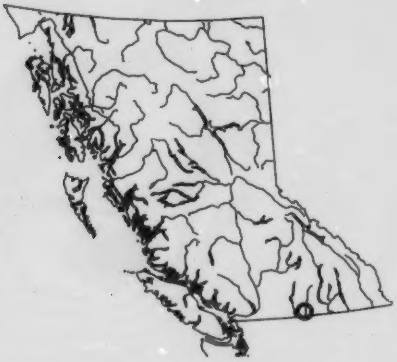
rabbitbrush goldenweed

Habitat/Range: Dry open slopes in the montane zone (IDFdm1); rare in SC BC, known only from Westbridge; S to CA.

Global/Provincial Rank: G4 SX Status: Red

Notes: This species is ranked by the BC Conservation Data Centre as SX (extirpated) since it has not been collected in over 50 years (Douglas *et al.* 1998b). Collections by Hardy from Keremeos (cited by Scoggan [1979]) and Parris from Spences Bridge (cited by Douglas [1995]) have been reidentified as *Ericameria nauseosa.*





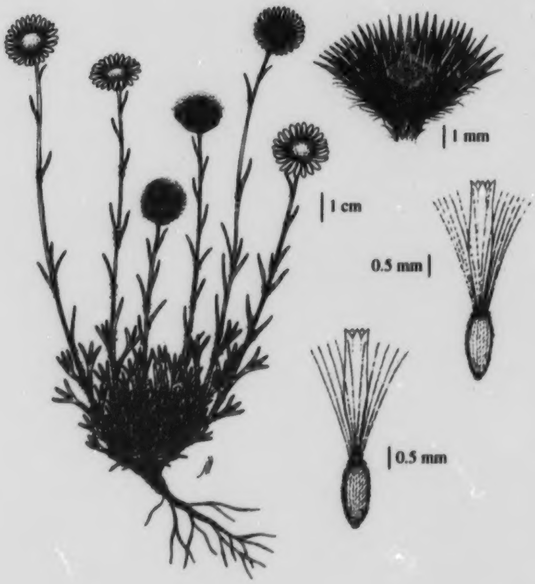
Erigeron compositus Pursh var. *discoideus* A. Gray

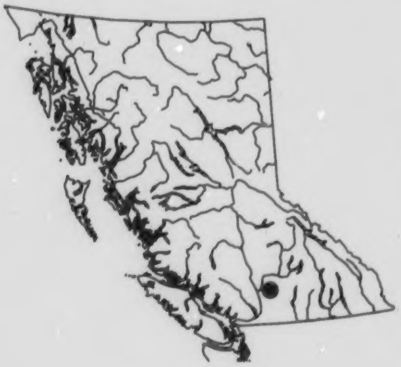
cut-leaved daisy

Habitat/Range: Dry sandy ridges in the montane zone (PPxh2); rare in SC BC, known only from the Merritt area; S to northcentral WA.

Global/Provincial Rank: G5T5 S1 Status: Red

Notes: The first collection of this variety for BC was made by J. Fenneman in 1999



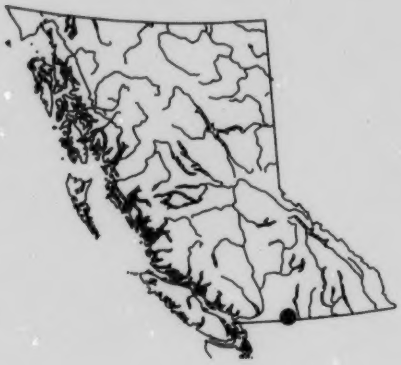


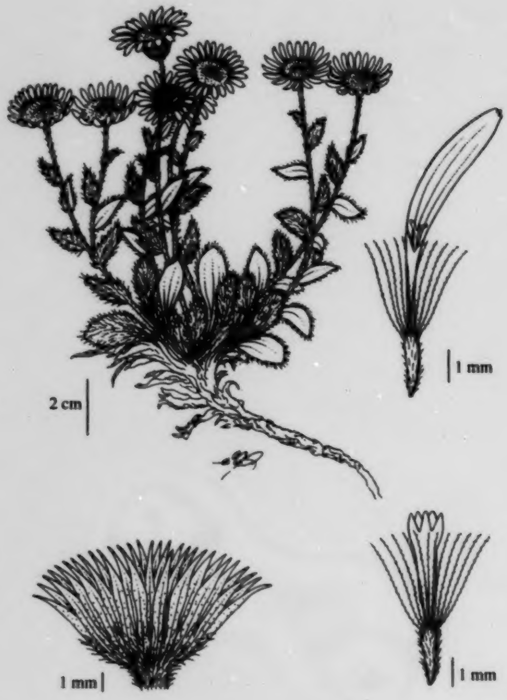
***Erigeron leibergii* Piper**

Leiberg's fleabane; Leiberg's daisy

Habitat/Range: Dry open slopes in the montane zone (IDFxh1); rare in SC BC, known only from the Ashnola River valley; S to northcentral WA.

Global/Provincial Rank: G3? S1 Status: Red



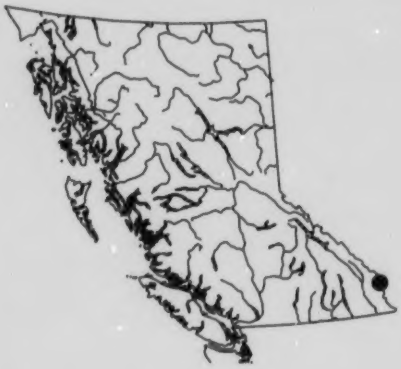


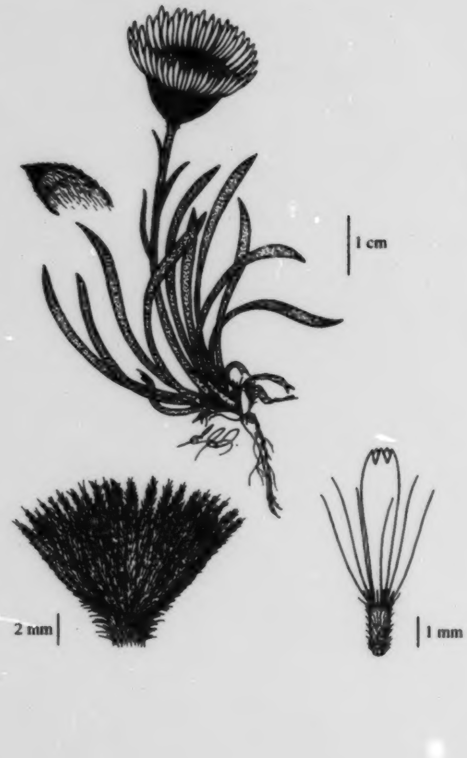
***Erigeron ochroleucus* Nutt. var. *scribneri* (Canby *ex* Rydb.) Cronq.**

buff daisy

Habitat/Range: Dry grassy slopes in the alpine zone (AT); rare in SE BC, known only from Mount Gass; E to SK and S to SD, NE and WY.

Global/Provincial Rank: G5T5 S2S3 Status: Blue





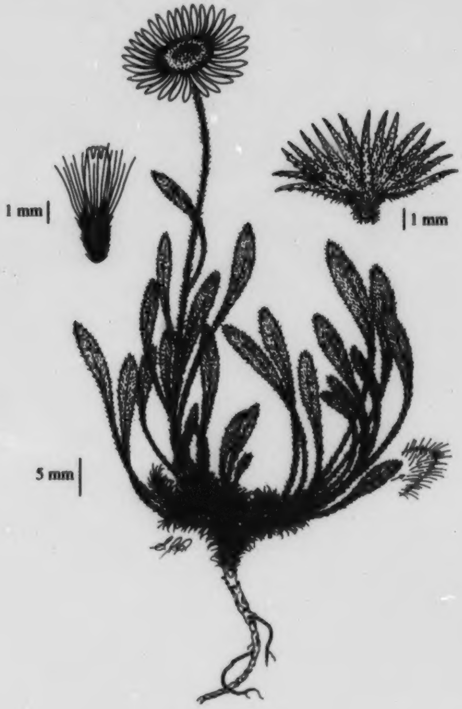
Erigeron poliospermus A. Gray var. _poliospermus_

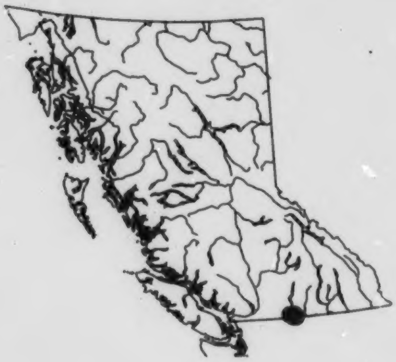
cushion fleabane; cushion daisy

Habitat/Range: Dry rocky slopes in the steppe zone (BGxh1); rare in extreme SC BC; S to ID and OR.

Global/Provincial Rank: G4T4 S2S3 Status: Blue

Notes: For colour illustration see Clark (1976) and Taylor (1992).





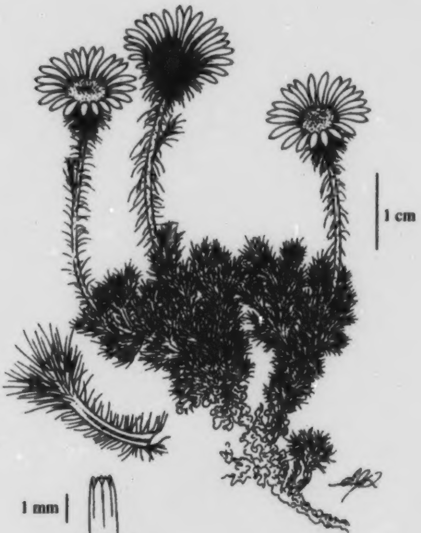
Erigeron salishii G.W. Dougl. & Packer

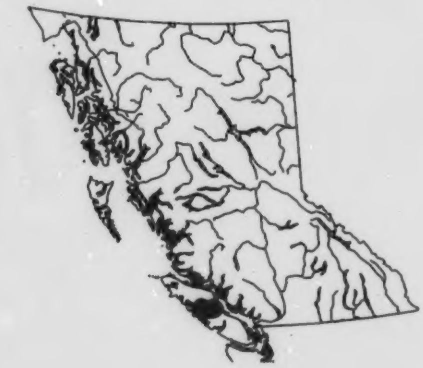
Salish daisy

Habitat/Range: Dry scree and talus slopes in the alpine zone (AT); rare in SW BC, known only from central Vancouver Island; S to N WA.

Global/Provincial Rank: G2 S1 Status: Red

Notes: This species, described by Douglas and Packer (1988), is a regional endemic (Douglas 1996) and is ranked as S2 in Washington (Washington Natural Heritage Program, 1994). For colour illustration see Taylor and Douglas (1995). Collections of this species have previously been identified as *Erigeron compositus* var. *discoideus* or *E. trifidus*, but *E. salishii* differs markedly (Packer 1983b, Douglas and Packer 1988).



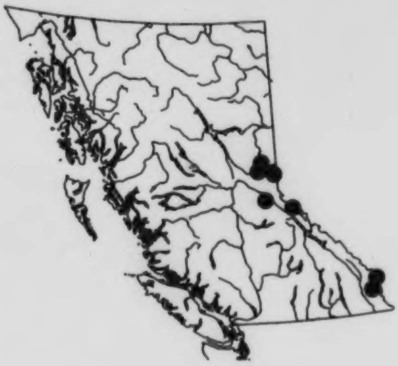


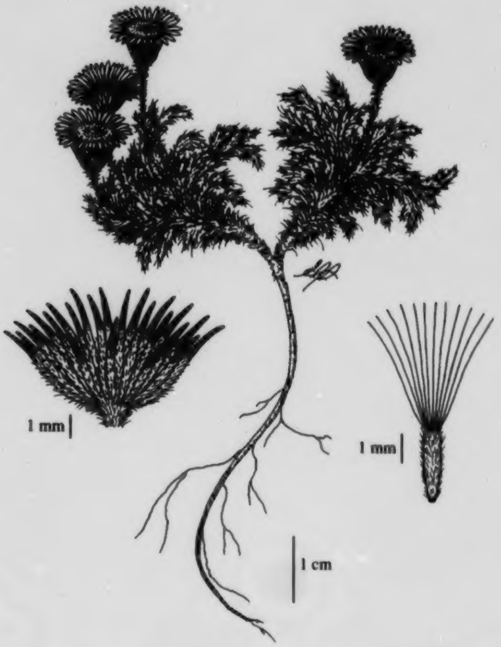
Erigeron trifidus **Hook.**

three-lobed daisy

Habitat/Range: Dry talus and scree slopes in the upper alpine zone (AT); rare in E BC; E to W AB.

Global/Provincial Rank: G2G3 S2 Status: Red



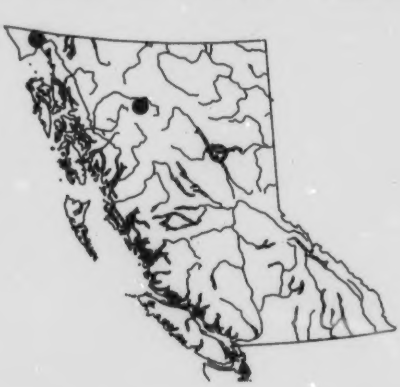


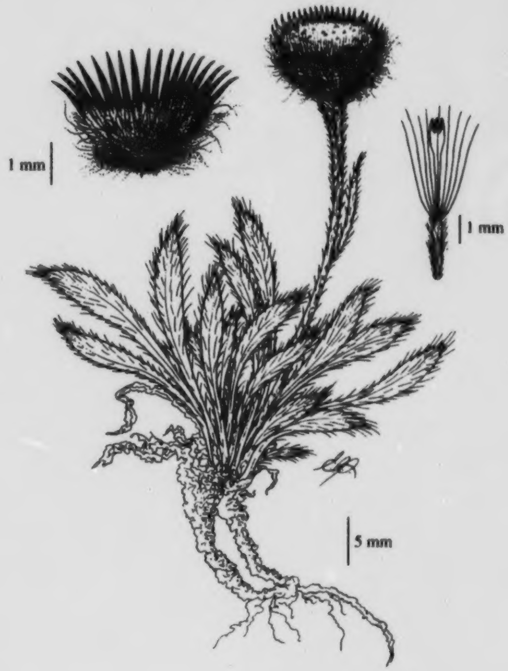
Erigeron uniflorus **L. ssp.** ***eriocephalus*** **(J. Vahl) Cronq.** (*E. eriocephalus* J. Vahl)

northern daisy

Habitat/Range: Wet to moist meadows in the alpine and subalpine zones (AT, SWBun); rare in NW BC, known recently only from Cold Fish Lake and the Kusawak Range; circumpolar, N to AK, YT and NT.

Global/Provincial Rank: G5T4 S2S3 Status: Blue



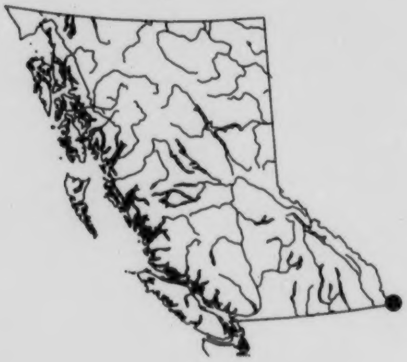


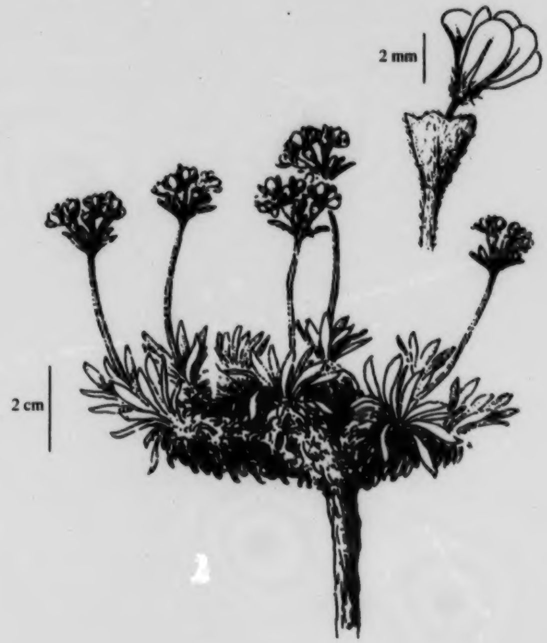
***Eriogonum androsaceum* Benth.**

androsace buckwheat

Habitat/Range: Dry rocky slopes and forest openings in the subalpine and alpine zones (AT, ESSFdk); rare in SE BC, known only from Akamina Pass; E to SW AB and S to N MT.

Global/Provincial Rank: G4G5 S2S3 Status: Blue





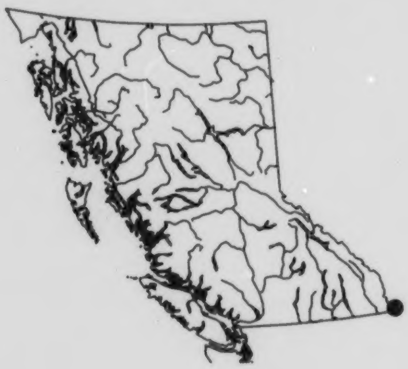
Eriogonum pauciflorum* Pursh var. *pauciflorum (*E. gnaphalodes auct. non* Benth., *E. multiceps* Nees)

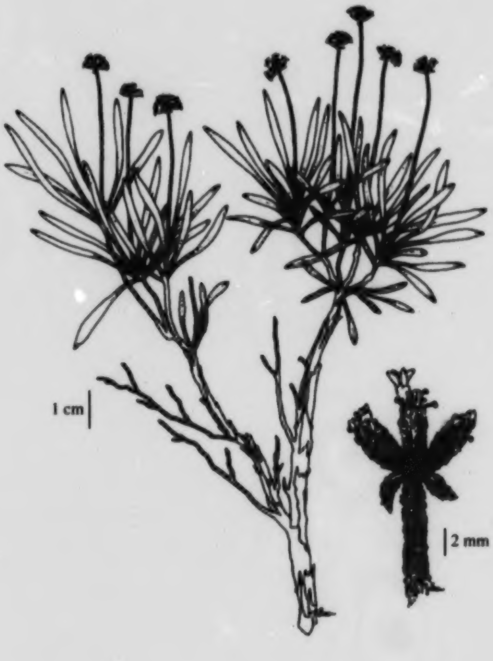
few-flowered buckwheat

Habitat/Range: Dry rocky, open slopes in the montane zone (ESSFdkp); rare in SE BC, reported only from South Kootenay Pass; E to SK and S to SD, MT, WY, NV and ID.

Global/Provincial Rank: G5T5 SH Status: Red

Notes: No voucher collections have been found for this species in BC.





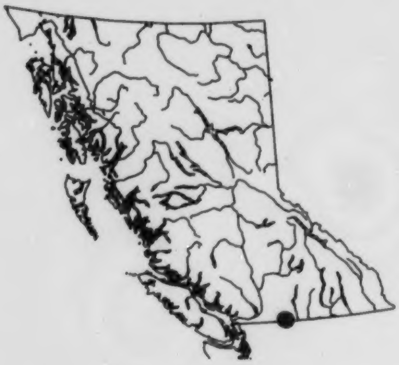
Eriogonum pyrolifolium Hook. *ex* Murr. var. *coryphaeum* T. & G.

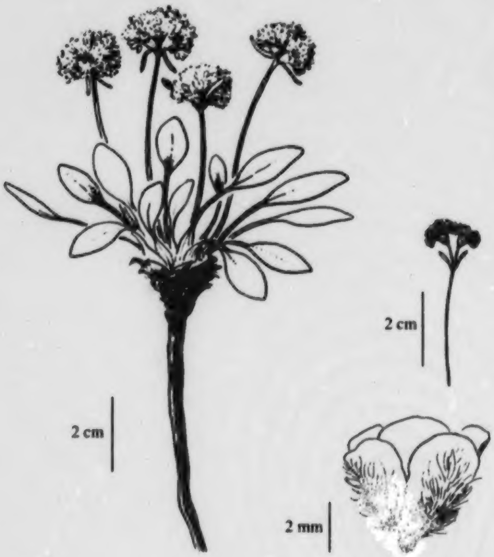
alpine buckwheat

Habitat/Range: Dry scree slopes in the subalpine and alpine zones (AT); rare in SC BC, known only from Cathedral Provincial Park; S to ID, MT and CA.

Global/Provincial Rank: G4T? S2S3 Status: Blue

Notes: For colour illustation see Pojar and MacKinnon (1994).



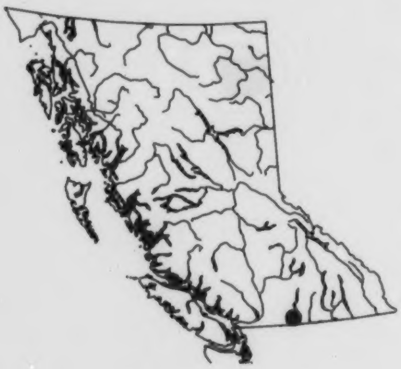


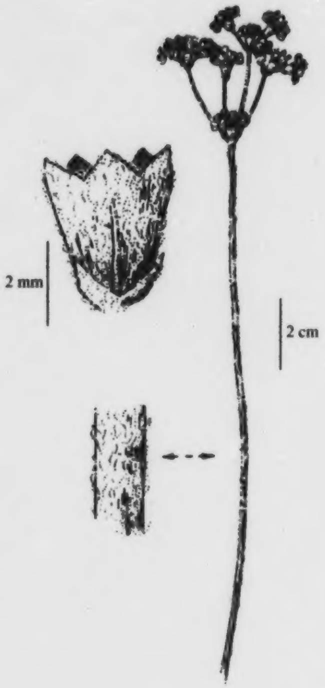
Eriogonum strictum Benth. var. *proliferum* (T. & G.) Reveal

strict buckwheat

Habitat/Range: Dry shrublands and open forests in the steppe and lower montane zones (IDFdk1); rare in SC BC, known only from the Keremeos area; S to ID, MT, NV and N CA.

Global/Provincial Rank: G5T? S1 Status: Red



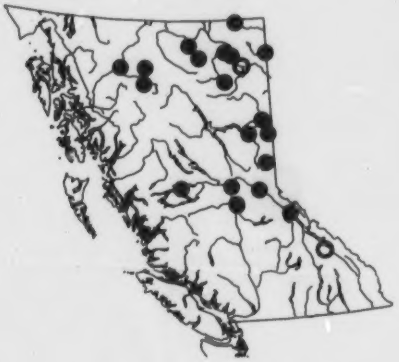


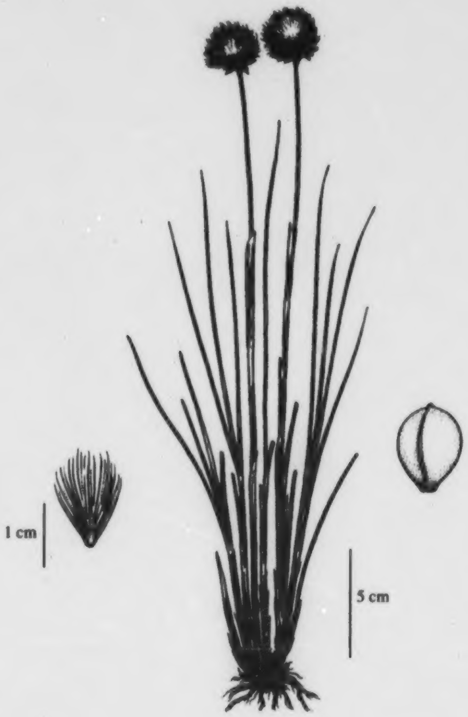
Eriophorum vaginatum L. ssp. *vaginatum* (*Eriophorum vaginatum* L. ssp. *spissum* (Fern.) Hult.

sheathed cotton-grass

Habitat/Range: Bogs, marshes and wet meadows in the montane to alpine zones (AT, BWBSmw1, BWBSmw2, ICHwk1, SBSdh1, SBSdk, SBSdw1, SBSmh, SBSvk, SWBun); rare in BC east of the Coast-Cascade Mountains and N of 51° N; circumpolar, N to AK, YT and NT and E to NF; Eurasia.

Global/Provincial Rank: G5T? S3 Status: Blue





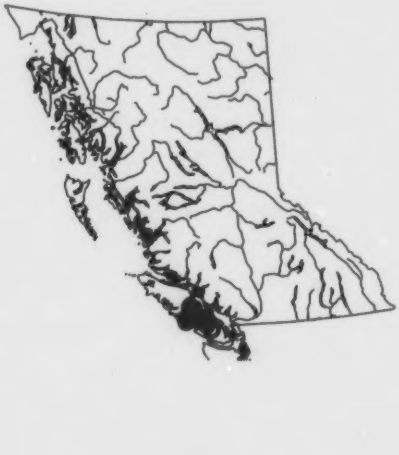
Erysimum arenicola S. Wats. var. *torulosum* (Piper) C.L. Hitchc. (*E. torulosum* Piper)

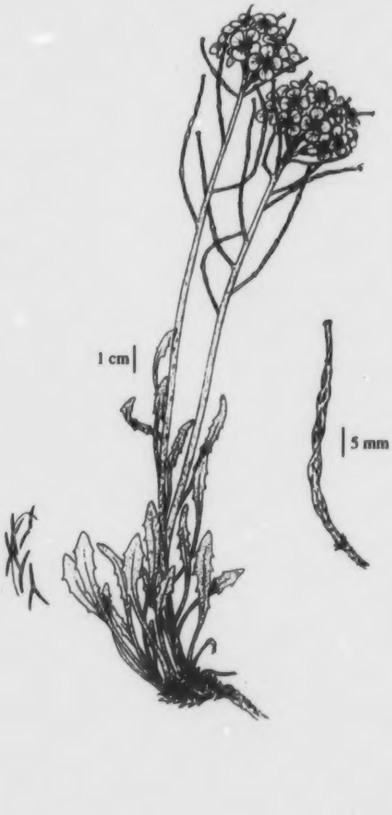
sand-dwelling wallflower

Habitat/Range: Moist to mesic rocky slopes or talus slopes in the alpine zone (AT); rare in SW BC, known only from Vancouver Island; S to OR.

Global/Provincial Rank: G4G5T? S2S3 Status: Blue

Notes: For colour illustration see Taylor and Douglas (1995).



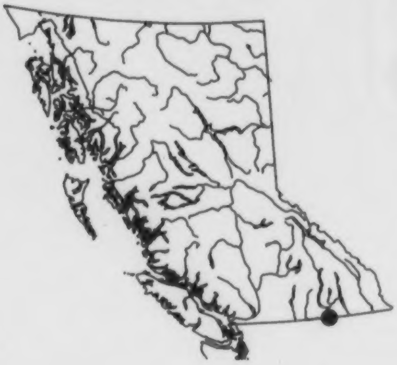


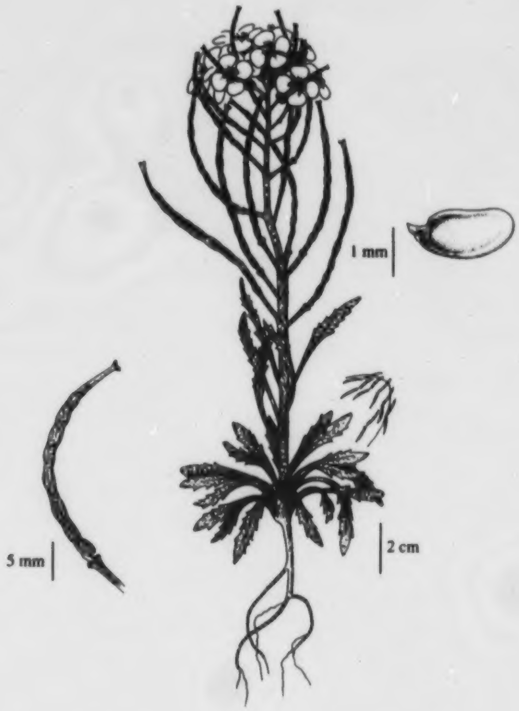
Erysimum asperum **(Nutt.) DC.** (*E. capitatum* [Dougl.] Greene)

prairie rocket; western wallflower

Habitat/Range: Dry roadsides and rocky slopes in the montane zone (ICHdw); rare in SE BC; E to S MB and S to KS, MN, NM and N CA.

Global/Provincial Rank: G5 S1 Status: Red



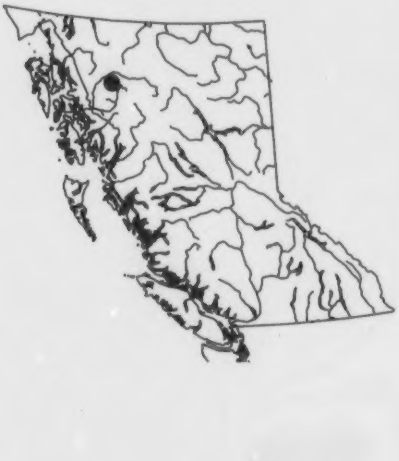


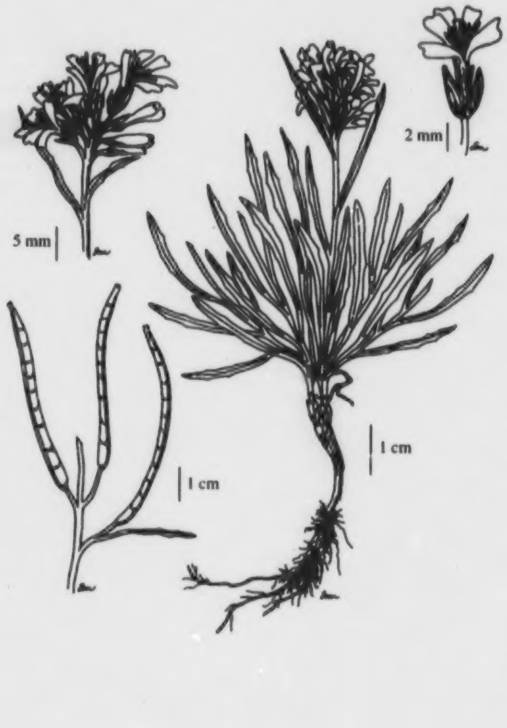
Erysimum pallasii **(Pursh) Fern.**

Pallas' wallflower

Habitat/Range: Dry talus slopes in the alpine zone (AT); rare in NW BC, known only from Mt. Edziza; circumpolar, N to AK, YT and NT, Eurasia.

Global/Provincial Rank: G4 S2S3 Status: Blue





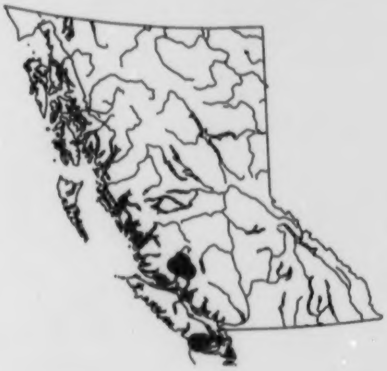
Erythronium montanum S. Wats.

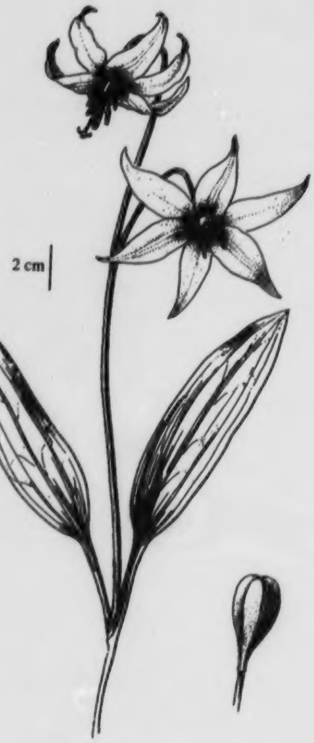
white glacier lily; white avalanche lily

Habitat/Range: Moist meadows and open forests in the montane and subalpine zones (CWHds1, CWHds2, CWHvh1, CWHvm1, MHmm); rare on Vancouver Island and in the Mt. Waddington area on the adjacent mainland; S to N OR.

Global/Provincial Rank: G4 S2S3 Status: Blue

Notes: For colour illustration see Clark (1976).



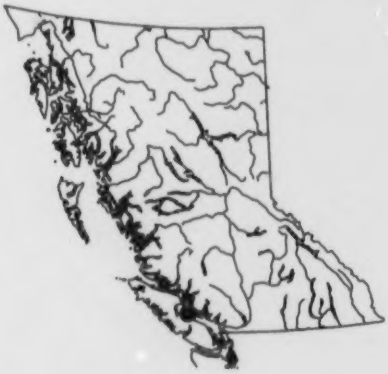


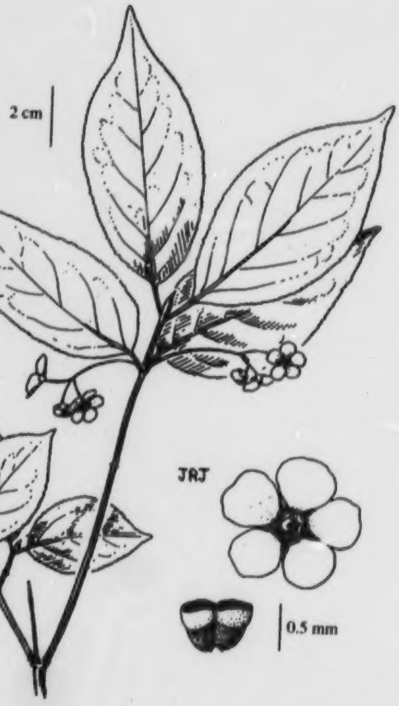
Euonymus occidentalis Nutt. *ex* Torr. var. *occidentalis*

western wahoo

Habitat/Range: Mesic forests and thickets in the lowland and montane zones (CWHxm1); rare in SW BC, known only from Courtenay, Vancouver Island; S to CA.

Global/Provincial Rank: G5T? S1 Status: Red



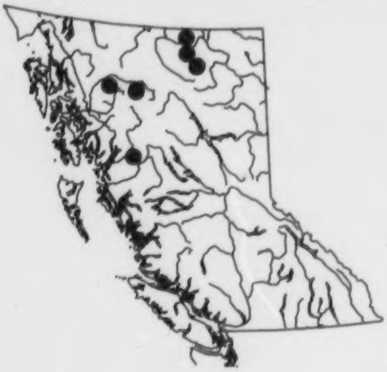


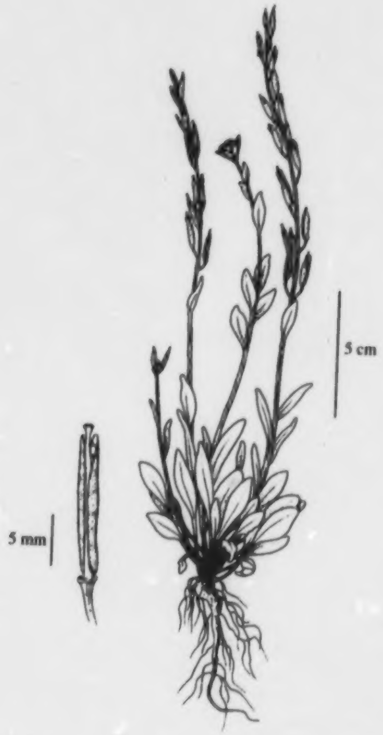
Eutrema edwardsii R. Br.

Edwards wallflower

Habitat/Range: Dry talus slopes in the subalpine and alpine zones (AT, SWBmk, SWBun); rare in N BC; circumboreal, N to AK, YT and NT; Eurasia.

Global/Provincial Rank: G4 S2S3 Status: Blue



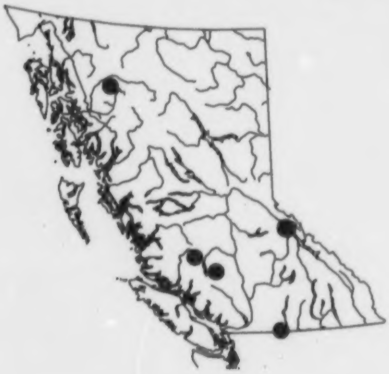


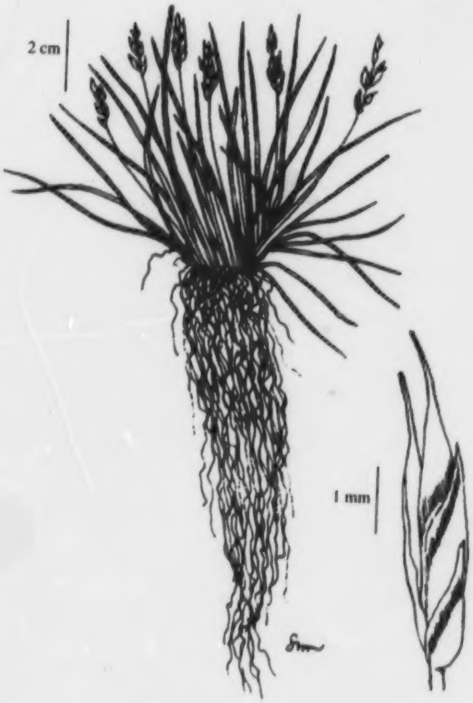
Festuca minutiflora Rydb.

little fescue

Habitat/Range: Dry, stony slopes in the alpine zone (AT); rare in SE BC and the Coast Mountains; N to YT and S to NM, AZ and CA.

Global/Provincial Rank: G5 S2S3 Status: Blue



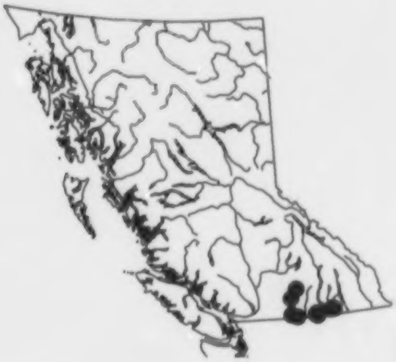


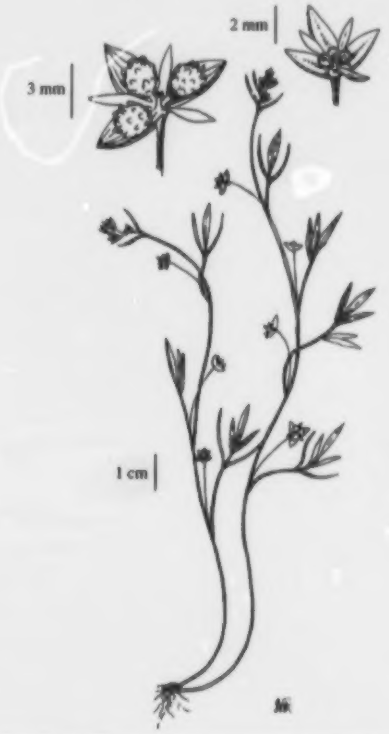
Floerkea proserpinacoides **Willd.** (*F. occidentalis* Rydb.)

false-mermaid

Habitat/Range: Seepage slopes in the montane zone (ICHdw, ICHmk1, IDFdm1, MSxk); rare in SC BC; E to NS and S to GA, VA, TN, ND, CO and CA.

Global/Provincial Rank: G5 S2S3 Status: Blue





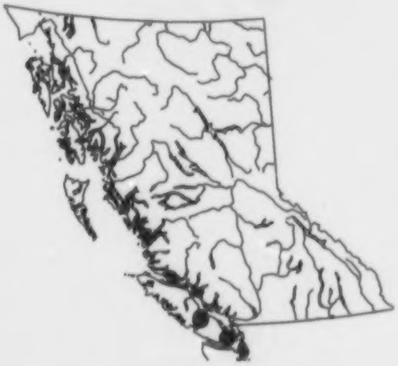
Fraxinus latifolia **Benth.** (*F. oregana* Nutt.)

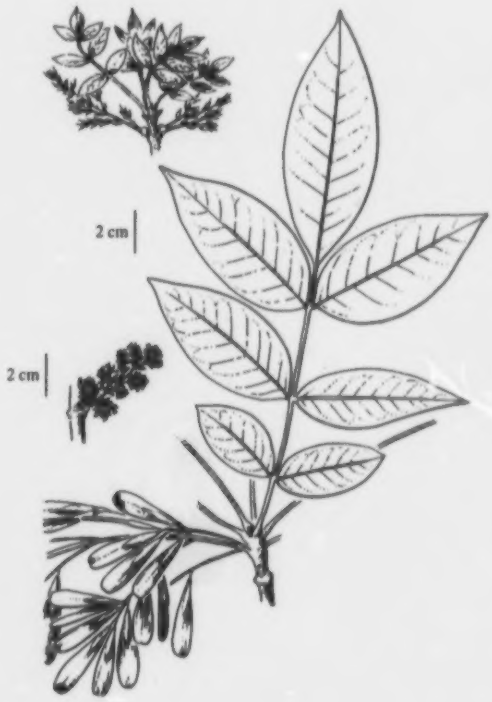
Oregon ash

Habitat/Range: Swamps and estuaries in the lowland zone (CWHxm2); rare on S Vancouver Island; S to CA.

Global/Provincial Rank: G5 S1 Status: Red

Notes: The Pacific Rim National Park report of *Fraxinus latifolia* is actually a specimen of *F. americanus* L. The two known sites of this species at Port Alberni and Victoria may or may not be native. For colour illustration see Pojar and Mackinnon (1994).



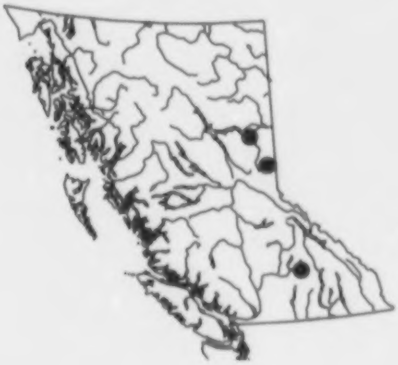


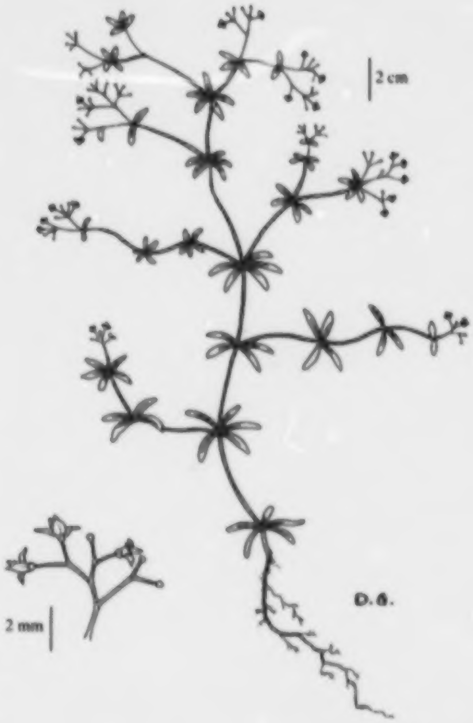
***Galium labradoricum* (Wieg.) Wieg.**

northern bog bedstraw

Habitat/Range: Bogs, wet meadows and moist forests in the montane zone (BWBSmw1, ICHmw2); rare in SC and NE BC; E to NF and S to NJ, OH and MN.

Global/Provincial Rank: G5 S2S3 Status: Blue



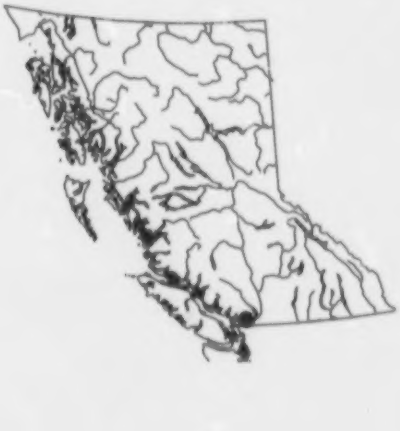


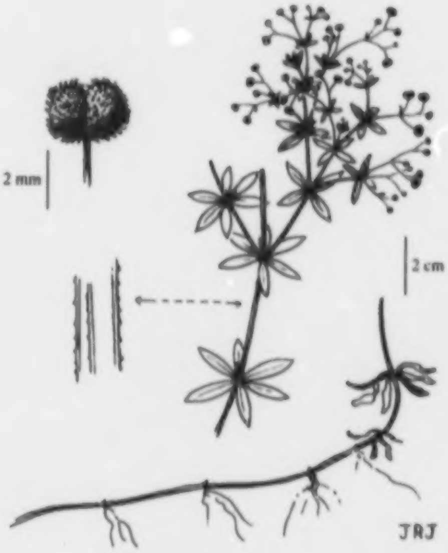
***Galium mexicanum* Kunth ssp. *asperulum* (A. Gray) Dempster** (*G. asperrimum* A. Gray var. *asperulum* A. Gray)

rough bedstraw

Habitat/Range: Mesic forest margins in the lowland and montane zones (CWHdm); rare in SW BC, known only from Mission; S to MT, NM, CA and MX.

Global/Provincial Rank: G5T? S1 Status: Red





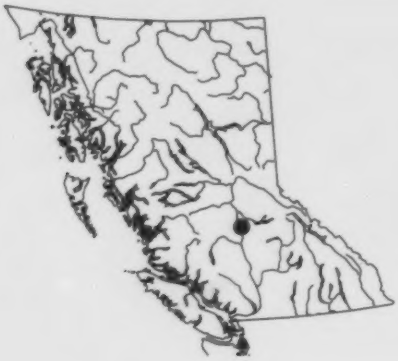
Galium multiflorum Kell.

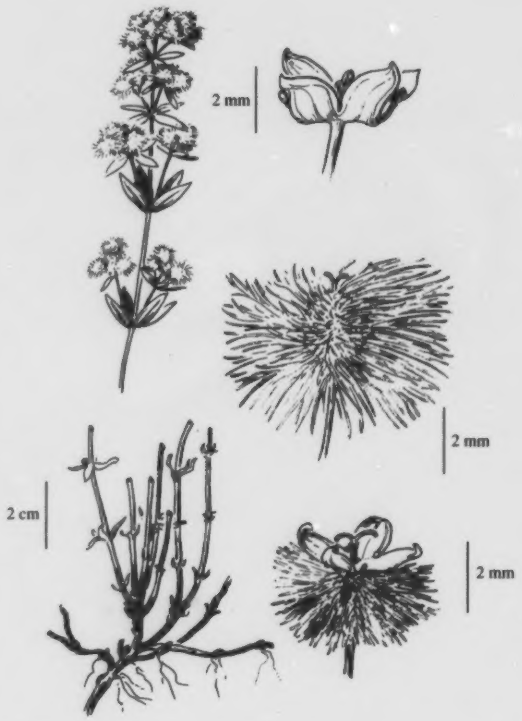
multi-flowered bedstraw

Habitat/Range: Dry forests and rocky slopes in the montane zone (IDFdk3); rare in SC BC, known only from McLeese Lake; S to UT, NV and CA.

Global/Provincial Rank: G5 S1 Status: Red

Notes: This species was first collected in BC by C. Schaefer in 1997.



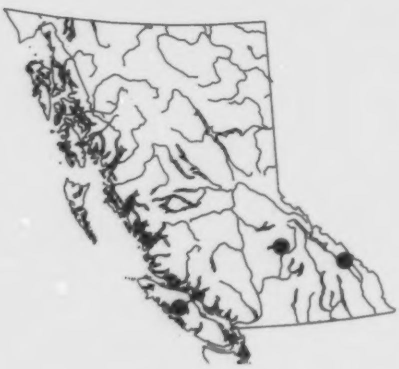


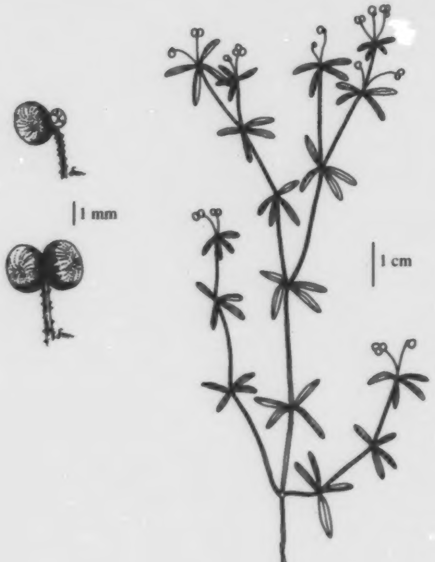
Galium trifidum L. ssp. *trifidum*

small bedstraw

Habitat/Range: Wet shorelines, swamps, bogs, fens, ditches and meadows from the lowland to subalpine zones (CWHxm2, ICHmk1, ICHmw3); rare in S BC; circumpolar, N to AK, YT and NT, E to NF and S to ME, MI, IL, SD, CO and OR, Eurasia.

Global/Provincial Rank: G5T5 S2S3 Status: Blue



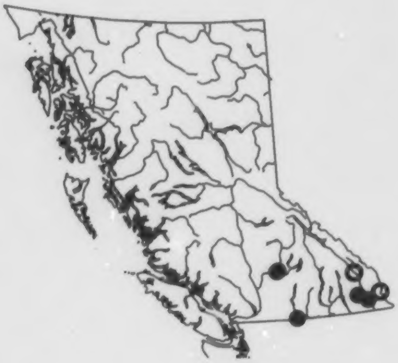


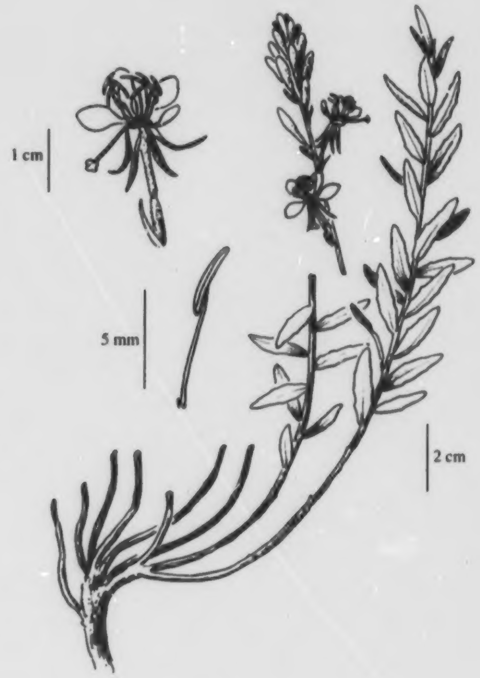
Gaura coccinea **Pursh**

scarlet gaura

Habitat/Range: Dry grasslands and shrublands in the steppe and montane zones (BGxh1, BGxw1, IDFdm2, IDFun, MSdk, PPxh2); rare in S BC east of the Coast-Cascade Mountains; E to MB and S to MX.

Global/Provincial Rank: G5 S1 Status: Red



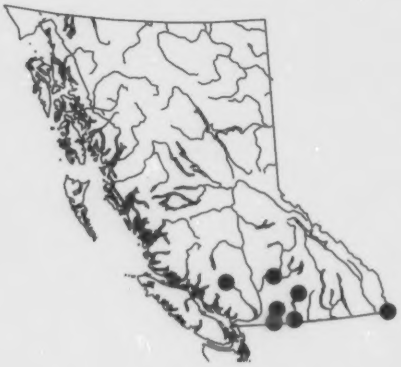


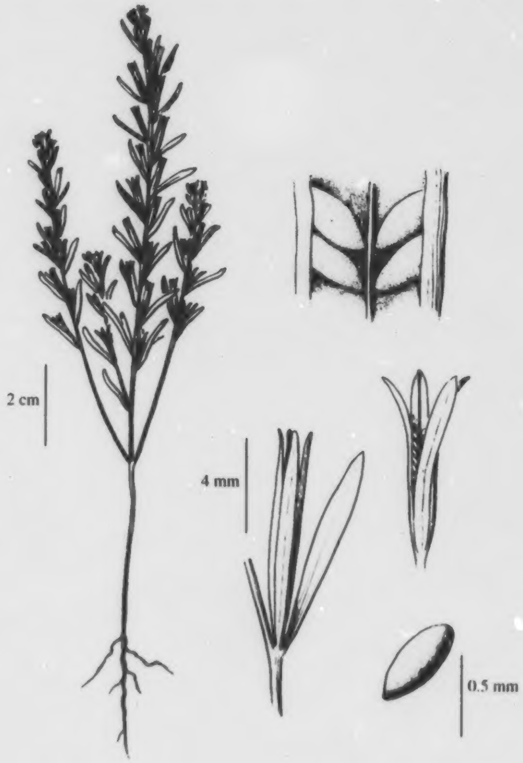
Gayophytum humile **Juss.** (*G. nuttallii* T. & G.)

dwarf groundsmoke

Habitat/Range: Dry sandy slopes in the steppe and montane zone (BGxh2, ESSFmw, ICHmk1, IDFxh1, MSdk, MSxk); rare in S BC east of the Cascade Mountains; E to SW AB and S to ID, MT, CO and S CA; Chile.

Global/Provincial Rank: G5 S2S3 Status: Blue



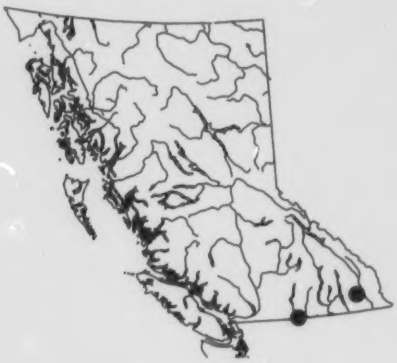


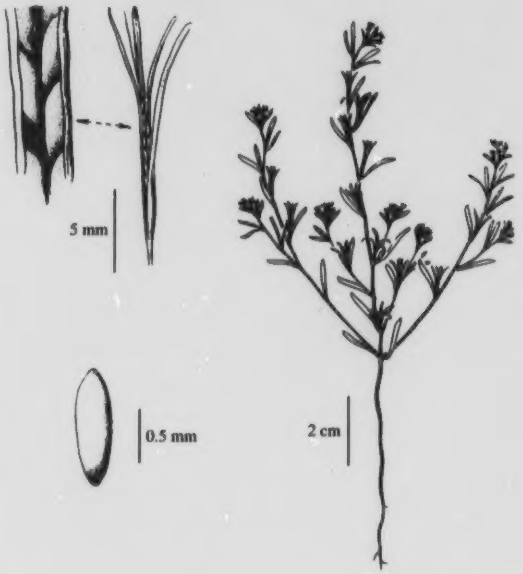
Gayophytum racemosum T. & G.

racemed groundsmoke

Habitat/Range: Dry grasslands and open forests in the montane zone (IDFdm2, IDFdm2); rare in SC and SE BC, known only from Anarchist Mountain and Marysville; S to CO and MT.

Global/Provincial Rank: G5 S1 Status: Red



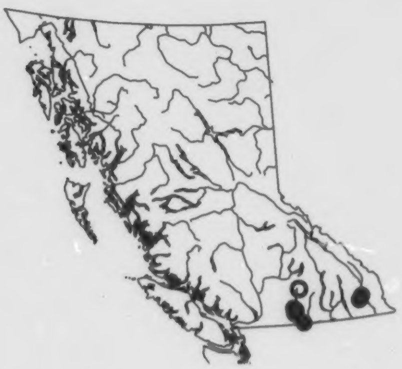


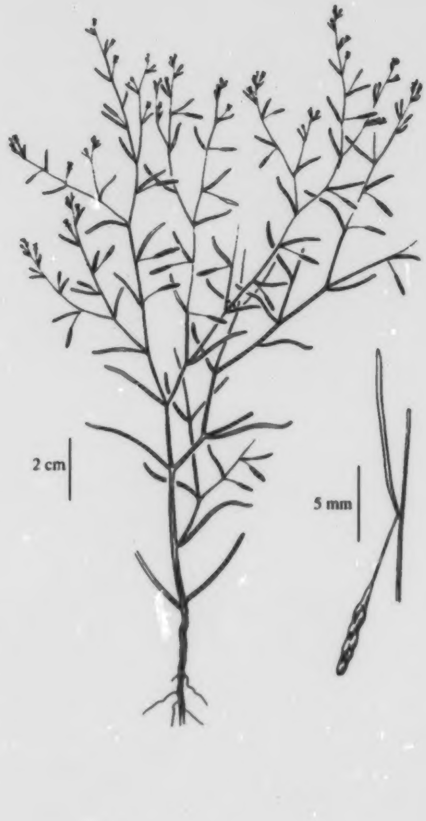
Gayophytum ramosissimum Nutt. *ex* T. & G.

hairstem groundsmoke

Habitat/Range: Dry slopes and forest openings in the steppe and lower montane zones (BGxh1, IDFdm1, IDFdm2, IDFxh1a, PPdh2); rare in S BC east of the Coast-Cascade Mountains; S to MT, CO, WY, UT, AZ and CA.

Global/Provincial Rank: G5 S1 Status: Red



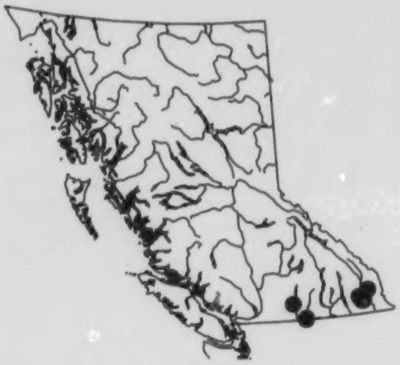


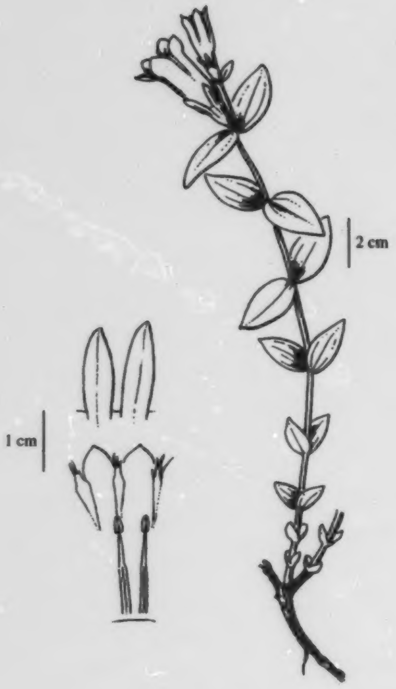
Gentiana affinis Griseb.

prairie gentian

Habitat/Range: Mesic to moist, often saline meadows, grassy slopes and forest openings in the steppe to montane zones (BGxh1, IDFdm2, IDFxh1); rare in SC and SE BC, E to MB and S to AZ, CA and MX.

Global/Provincial Rank: G5 S2S3 Status: Blue



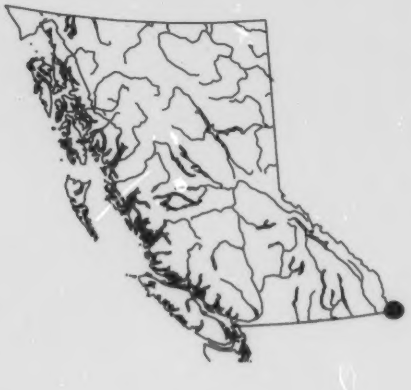


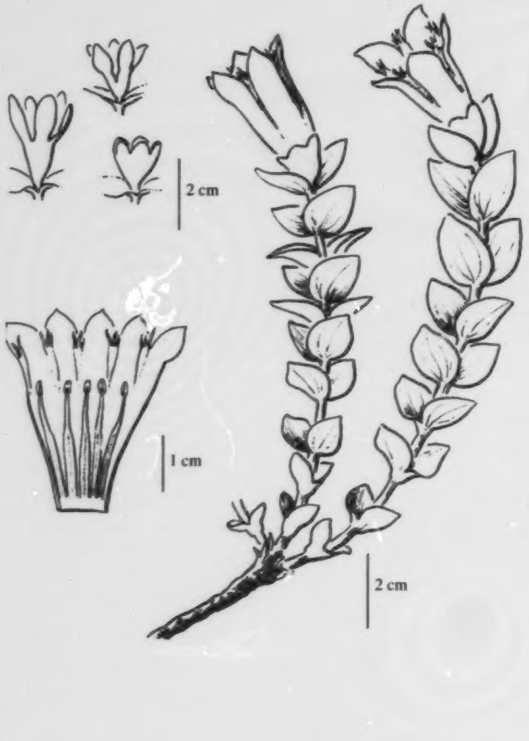
Gentiana calycosa Griseb.

mountain bog gentian

Habitat/Range: Wet to moist meadows and streambanks in the subalpine and alpine zones (AT, ESSFdk, ESSFdkp); rare in SE BC; E to SW AB and S to ID, MT and CA.

Global/Provincial Rank: G4 S2S3 Status: Blue





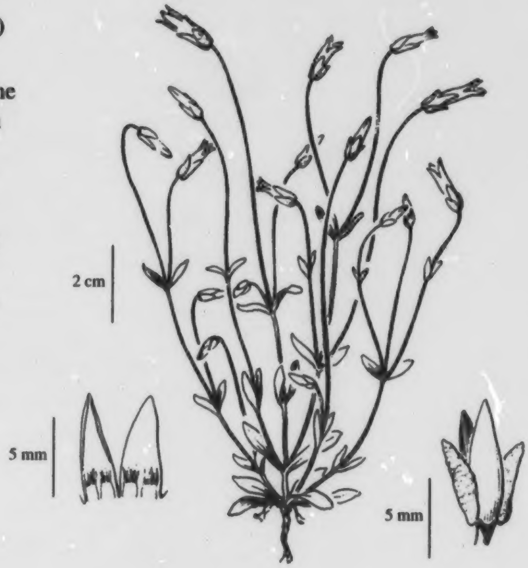
Gentianella tenella **(Rottb.) Borner ssp. *tenella*** (*Gentiana tenella* Rottb., *Lomatogonium tenellum* [Rottb.] Löve & Löve)

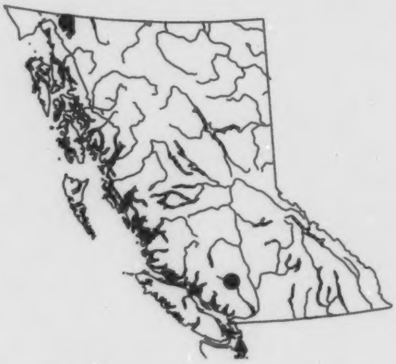
slender gentian

Habitat/Range: Moist meadows from the montane to alpine zones (BWBSdk1, ESSFmw); rare, known only from Tagish Lake (N BC) and Tenquille Lake (S BC); circumpolar, N to AK, YT and NT and S to CO, UT, NM, AZ and CA; Eurasia.

Global/Provincial Rank: G4G5T4 S2S3 Status: Blue

Notes: This species was cited in Straley *et al.* (1985) and later taken up by Douglas *et al.* (1990) but the CDC has yet to locate voucher material.



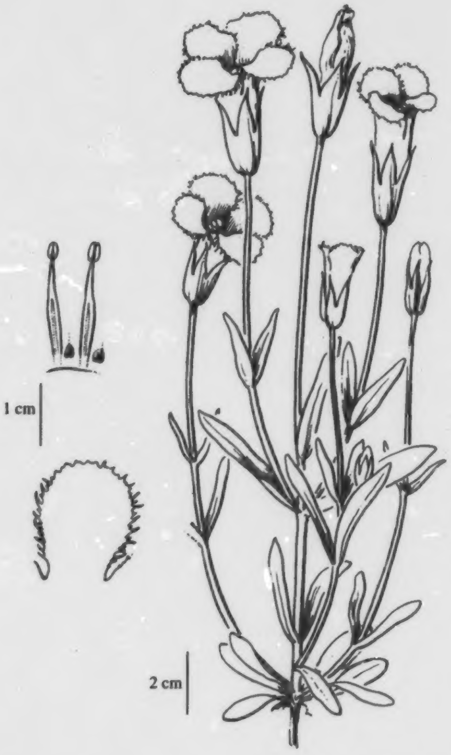


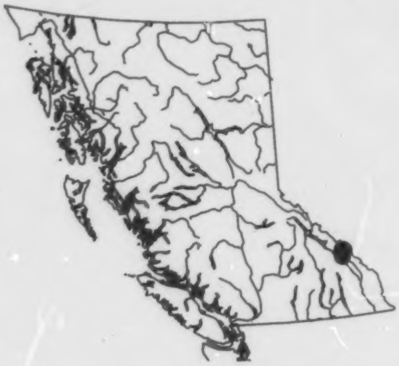
Gentianopsis macounii **(Holm) Iltis** (*Gentianella crinita* [Froel.] G. Don ssp. *macounii* [Holm] Gillett, *Gentiana detonsa* Rottb. var. *unicaulis* [A. Nels.] C.L. Hitchc., *G. macounii* Holm)

Macoun's fringed gentian

Habitat/Range: Wet to moist fens, meadows and streamsides in the montane zone (ICHmk1, MSdk); rare in SE BC, known only from Field and Wapta Falls; N to YT and NT, E to PQ and S to MN and SD.

Global/Provincial Rank: G5 S2S3 Status: Blue



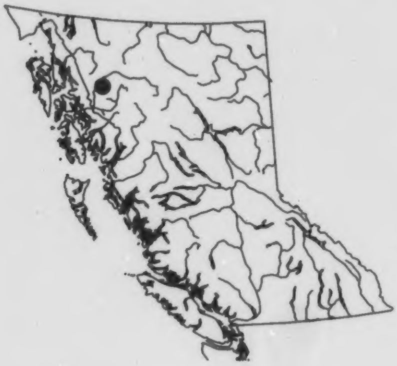


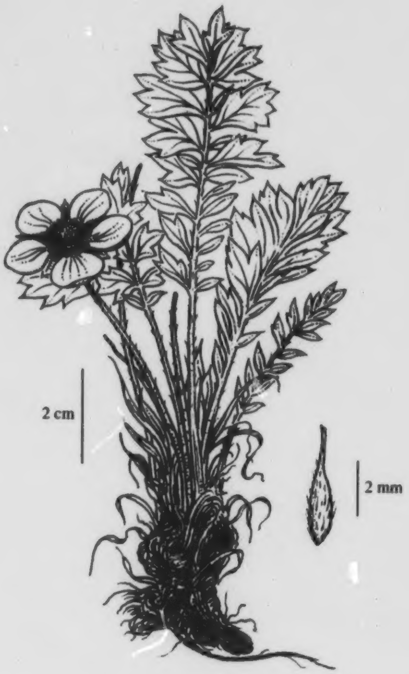
Geum rossii (R. Br.) Ser. var. *rossii*

Ross' avens

Habitat/Range: Moist to mesic, open calcareous sites in the alpine zone (AT); rare in NW BC, known only from Yehiniko Lake, near Telegraph Creek; amphiberingian, N to AK and NT and S to NV, NM and AZ; E Asia.

Global/Provincial Rank: G5T5 S2S3 Status: Blue





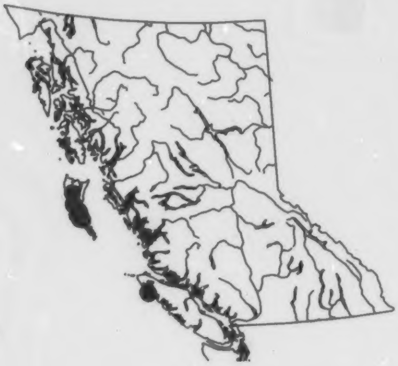
Geum schofieldii Calder & Taylor (*G.* x *macranthum* [Kearney] Boivin)

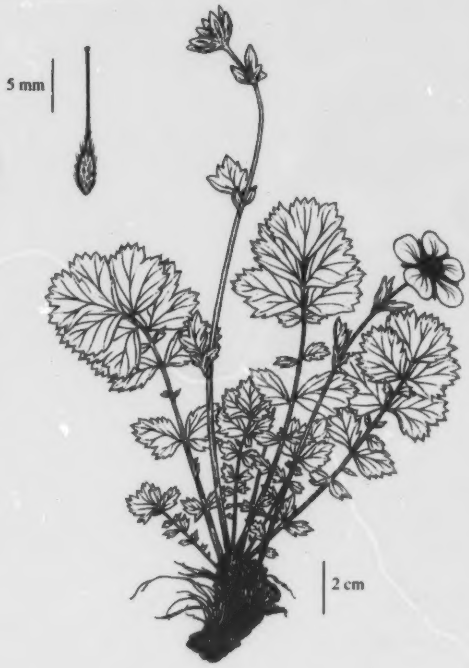
Queen Charlotte avens

Habitat/Range: Wet rock crevices in the lowland to subalpine zones (CWHvh2, MHwh, MHwhp); rare on the Queen Charlotte Islands and NW Vancouver Island; endemic.

Global/Provincial Rank: G2 S2 Status: Red

Notes: For colour illustration see Calder and Taylor (1968).





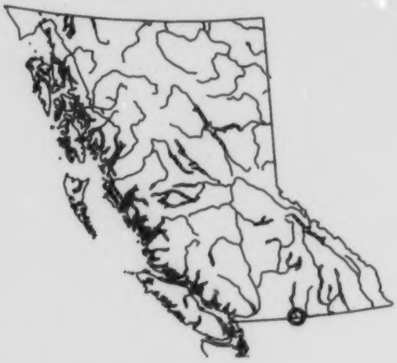
***Gilia sinuata* Dougl. *ex* Benth.** (*G. inconspicua* [Sm.] Sweet var. *sinuata* [Dougl. *ex* Benth.] A. Gray)

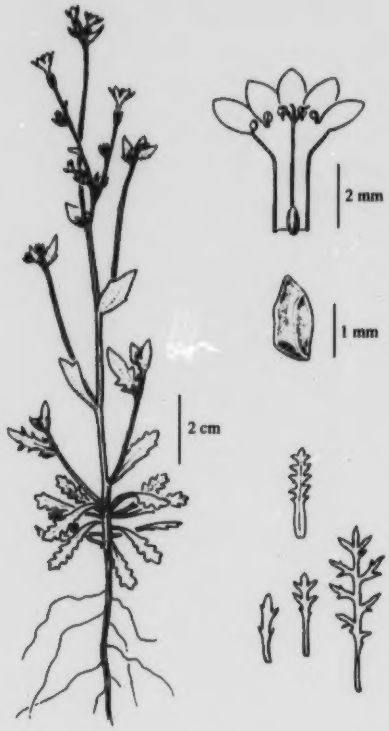
shy gilia

Habitat/Range: Dry, open, sandy flats in the steppe zone (BGxh1); rare in SC BC, known only from Osoyoos; S to WY, NM and CA.

Global/Provincial Rank: G5 SH Status: Red

Notes: This species is known only from a 1940 collection.





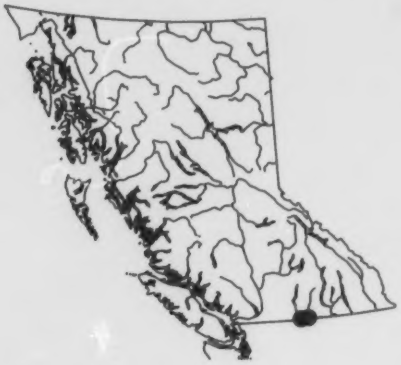
***Gilia tenerrima* A. Gray**

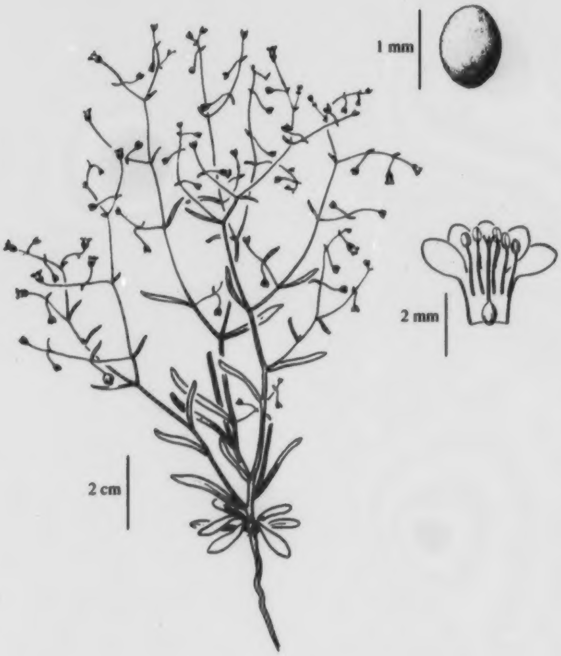
slender gilia; diffuse gilia

Habitat/Range: Dry open slopes or open forest in the montane zone (IDFdm1, PPdh1); rare in SC BC, known only from Anarchist Mountain and Kettle Valley; S to NV, UT and WY.

Global/Provincial Rank: G5 S1 Status: Red

Notes: This species was first collected in 1996 by F. Lomer.



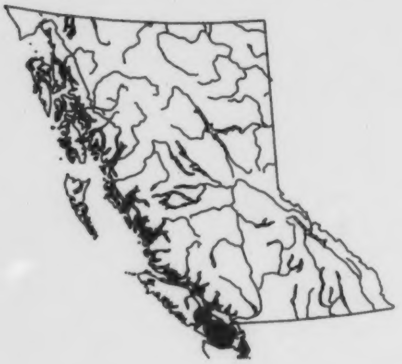


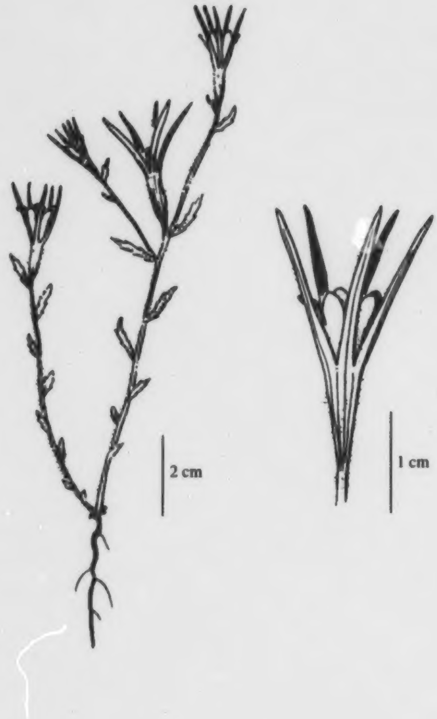
Githopsis specularioides **Nutt.**

common bluecup

Habitat/Range: Moist seepage areas on rock outcrops in the lowland and montane zones (CDFmm, CWHmm2, CWHxm1, CWHxm2, MHmm1); rare on SE Vancouver Island; S to CA.

Global/Provincial Rank: G5 S2S3 Status: Blue



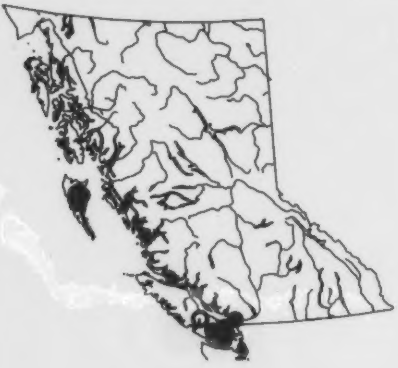


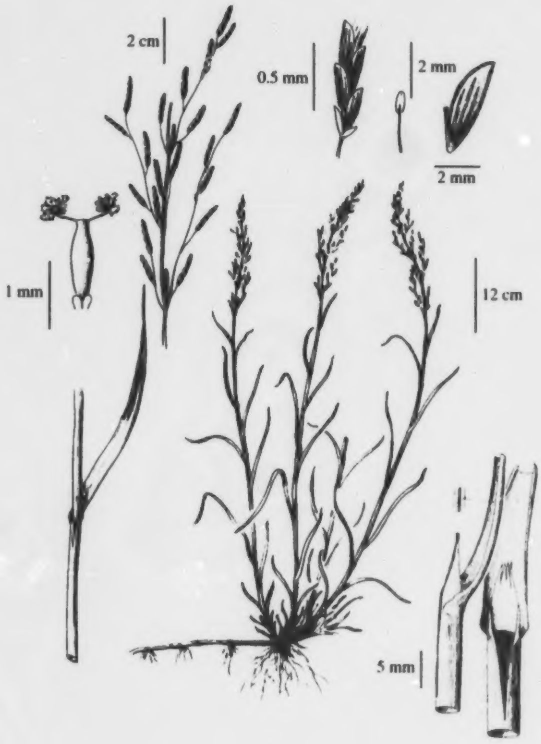
Glyceria leptostachya **Buckl.**

slender-spiked mannagrass

Habitat/Range: Brackish tidal marshes, swamps, lakeshores, streamsides and wet meadows in the lowland zone (CDFmm, CWHdm, CWHwh1, CWHxm2); rare in coastal BC; N to SE AK and S to CA.

Global/Provincial Rank: G3 S2S3 Status: Blue



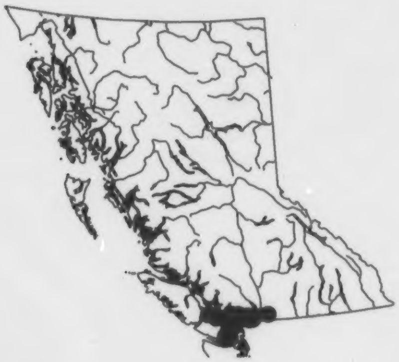


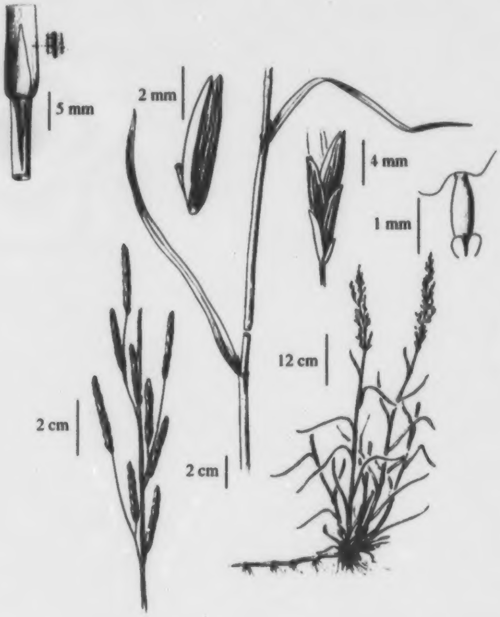
Glyceria occidentalis **(Piper) J.C. Nels.** (*G. septentrionalis auct. non* A.S. Hitchc.)

western mannagrass

Habitat/Range: Marshes, lakeshores and wet meadows and forests in the lowland zone (CDFmm, CWHdm, CWHxm1); rare in coastal SW BC; S to ID and CA.

Global/Provincial Rank: G5 S2S3 Status: Blue



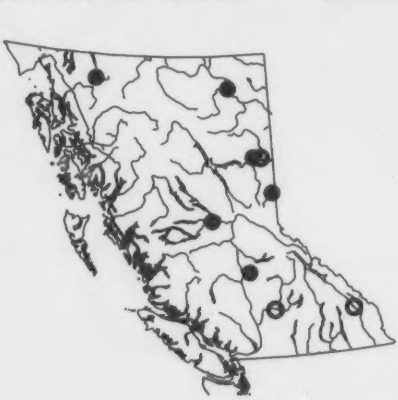


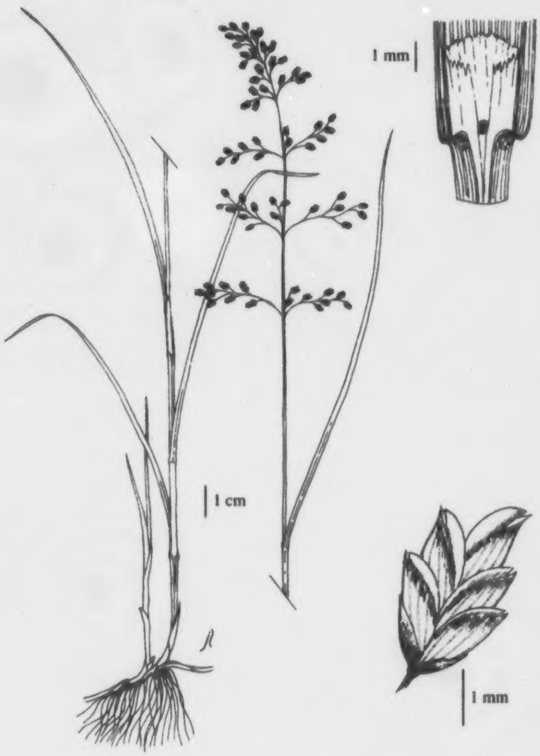
Glyceria pulchella **(Nash) K. Schum.**

slender mannagrass

Habitat/Range: Streamsides, marshes, lakeshores and ponds in the montane zone (BGxh2, BWBSmw1, BWBSmw2, IDFdk3, IDFun, SBSdk, SWBun); rare in BC east of the Coast-Cascade Mountains; N to AK, YT and NT and E to MB.

Global/Provincial Rank: G5 S2S3 Status: Blue



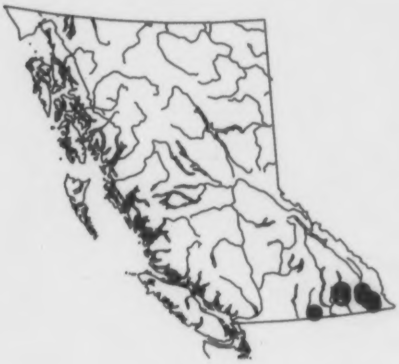


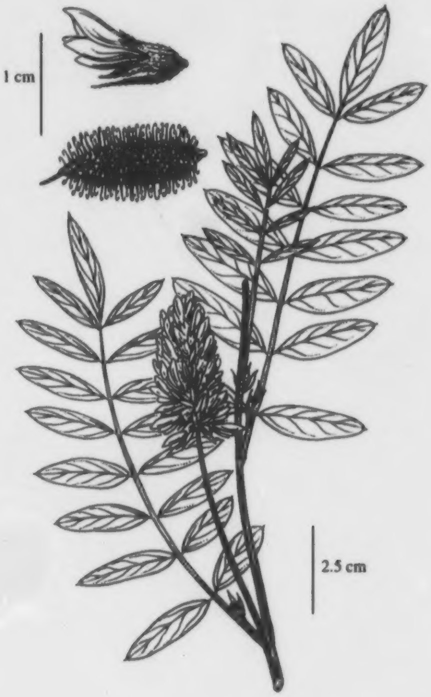
***Glycyrrhiza lepidota* Pursh** (*G. lepidota* Pursh var. *glutinosa* [Nutt.] S. Wats.)

wild licorice

Habitat/Range: Moist to wet fields, streambanks and open forests in the montane zone (ICHdw, IDFdm2, PPdh2); rare in SE BC; E to ON and S to MN, MT, MO, TX, AZ and CA.

Global/Provincial Rank: G5 S2 Status: Red



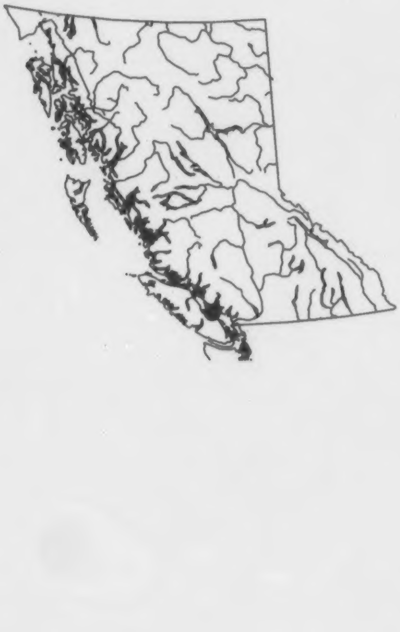


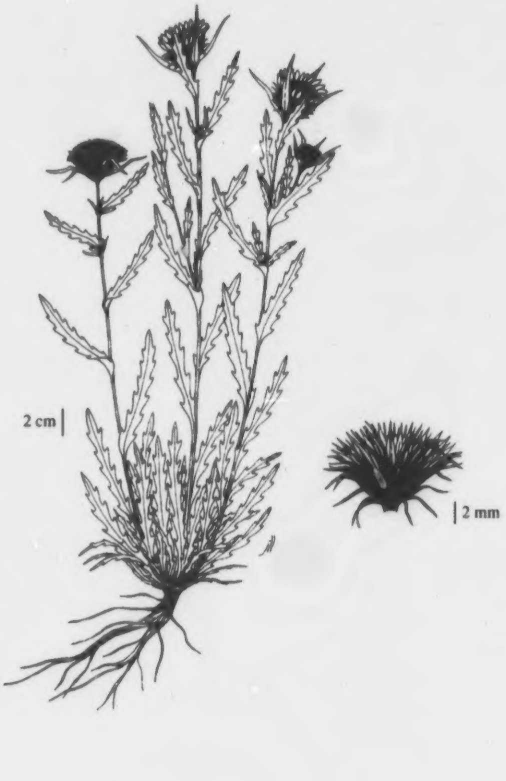
Grindelia hirsutula* Hook. & Arn. var. *hirsutula

hairy gumweed

Habitat/Range: Dry sites in the lowland zone (CDFmm); rare on Lasqueti Island; S to CA.

Global/Provincial Rank: G5T3T4 S1 Status: Red



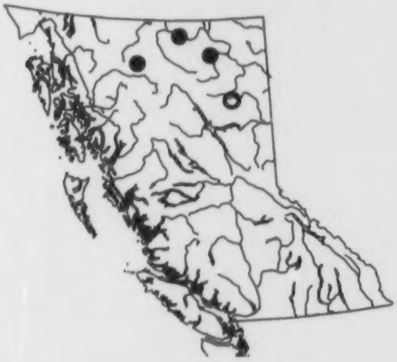


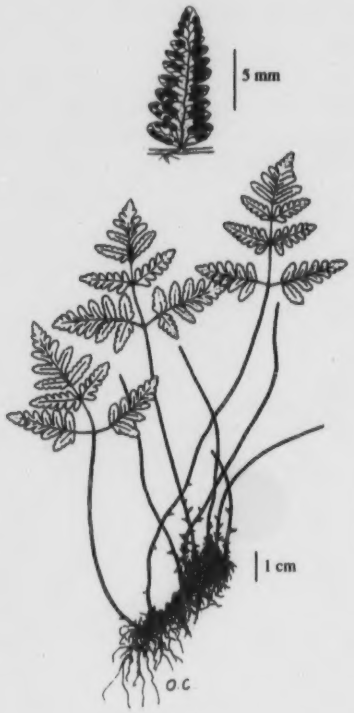
***Gymnocarpium jessoense* (Koidz.) Koidz. ssp. *parvulum* Sarvela** (*G. continentale* [V. Petrov] Pojark., *G. robertianum auct. non* [Hoffm.] Newm.)

Nahanni oak fern

Habitat/Range: Moist cool shale or limestone slopes in the montane and subalpine zones (BWBSdk2, BWBSmw2, BWBSwk2, SWBun); rare in N BC; amphiberingian, N to AK, YT, and NT, E to ON and S to WI and MN; Asia.

Global/Provincial Rank: G5T4 S2S3 Status: Blue



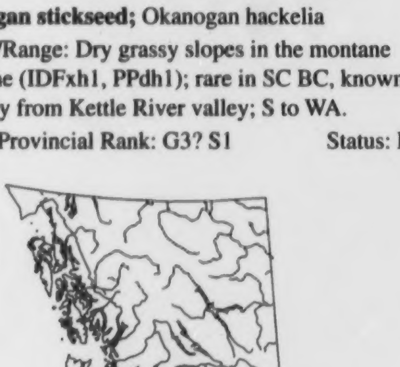


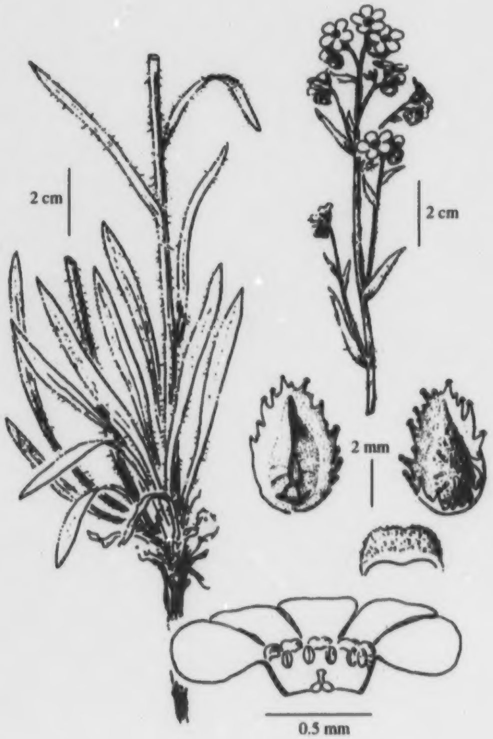
***Hackelia ciliata* (Dougl. *ex* Lehm.) I.M. Johnst.**

Okanogan stickseed; Okanogan hackelia

Habitat/Range: Dry grassy slopes in the montane zone (IDFxh1, PPdh1); rare in SC BC, known only from Kettle River valley; S to WA.

Global/Provincial Rank: G3? S1 Status: Red



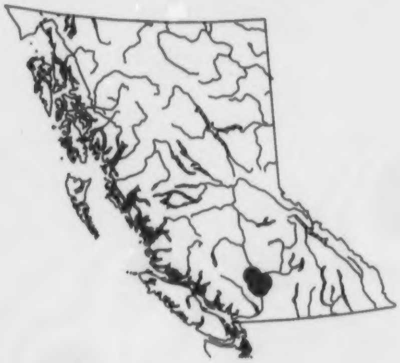


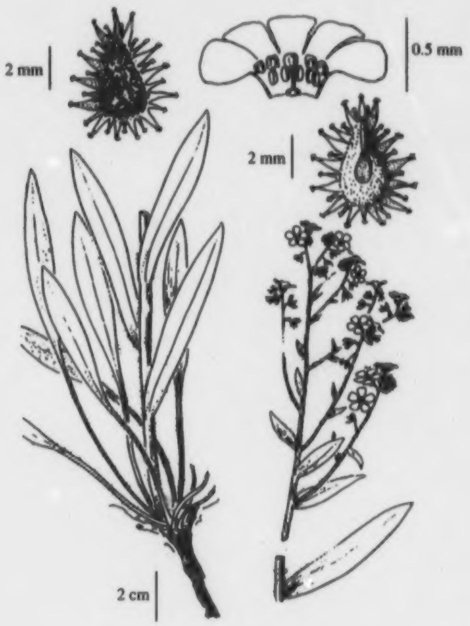
Hackelia diffusa **(Dougl. *ex* Lehm.) I. M. Johnst.**

spreading stickseed; spreading hackelia

Habitat/Range: Dry grasslands, shrublands and forest openings in the steppe and lower montane zones (BGxh1, PPxh2); rare in SC BC; S to WA and OR.

Global/Provincial Rank: G4 S2S3 Status: Blue



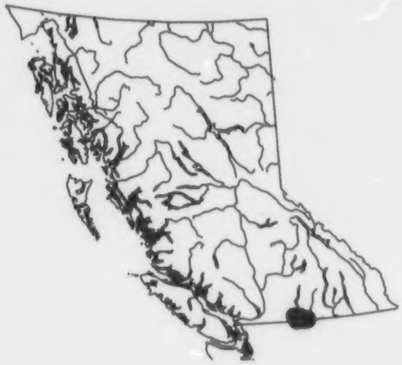


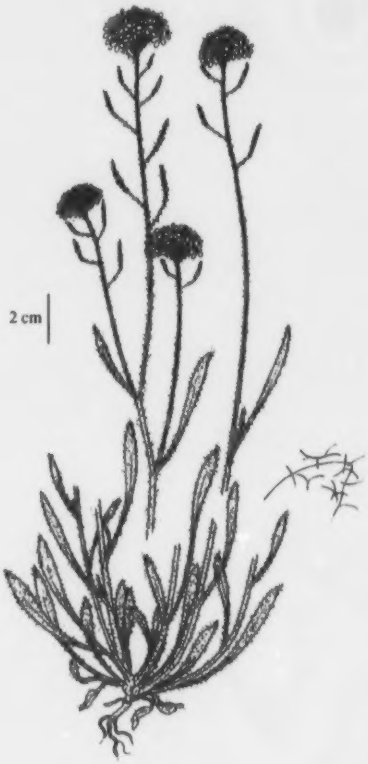
Halimolobos whitedii **(Piper) Rollins**

Whited's halimolobos

Habitat/Range: Dry grasslands in the steppe zone (BGxh1); rare in SC BC; S to N WA.

Global/Provincial Rank: G3? S2 Status: Red



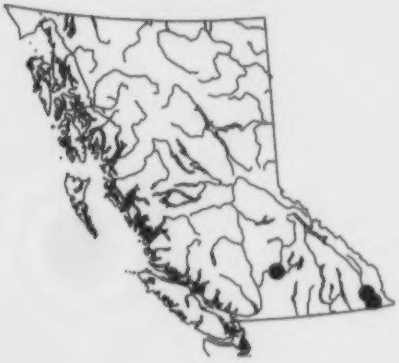


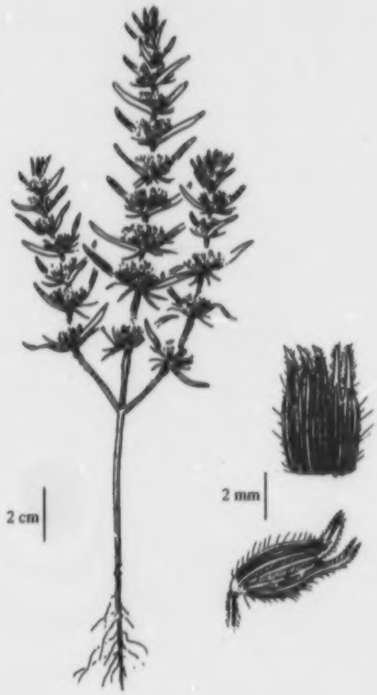
***Hedeoma hispida* Pursh**

mock-pennyroyal; rough pennyroyal, ground-ivy

Habitat/Range: Dry fields and grasslands in the steppe and montane zones (BGxh1, IDFdm2, PPxh2); rare in SC and SE BC; E to PQ and S to MT, CO, TX, and MS.

Global/Provincial Rank: G5 S1 Status: Red



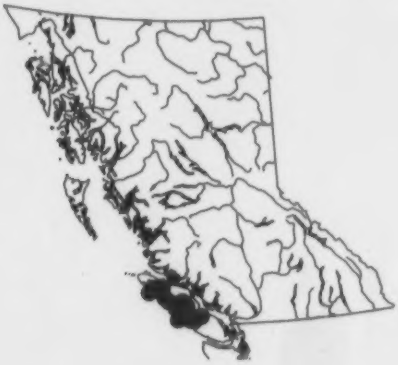


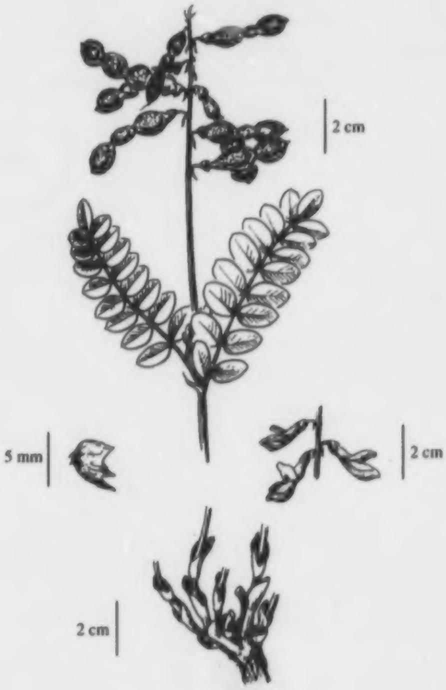
***Hedysarum occidentale* Greene**

western hedysarum; western sweet-vetch

Habitat/Range: Moist to mesic meadows and rocky slopes in the subalpine and alpine zones (AT, MHmm1); rare in SW BC, known only from N and C Vancouver Island; S to ID, MT, CO and N WA.

Global/Provincial Rank: G5 S2S3 Status: Blue



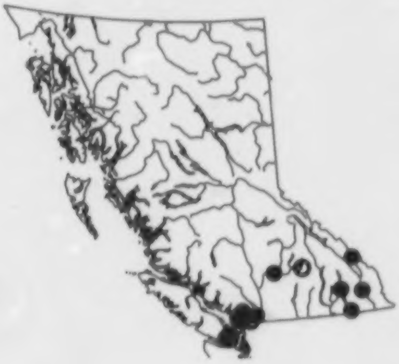


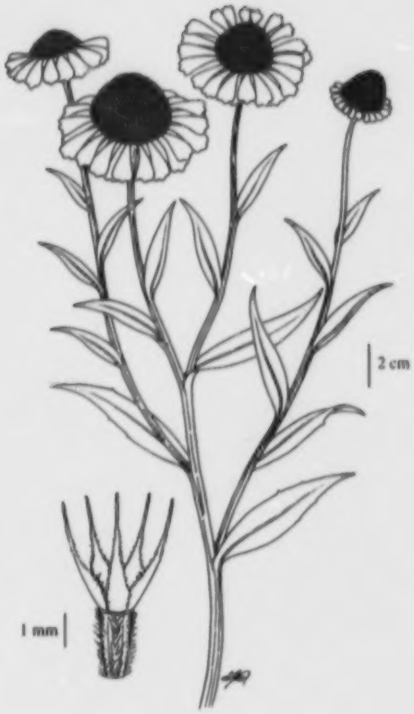
Helenium autumnale L. var. _grandiflorum_ (Nutt.) T. & G.

mountain sneezeweed

Habitat/Range: Moist to mesic streambanks, meadows and forest openings in the lowland, steppe and montane zones (BGxh2, CDFmm, CWHdm, CWHxm1, ICHmw2, ICHxw, PPdh2); rare in S BC; N to NT, E to AB and S to CA.

Global/Provincial Rank: G5T? S2S3 Status: Blue



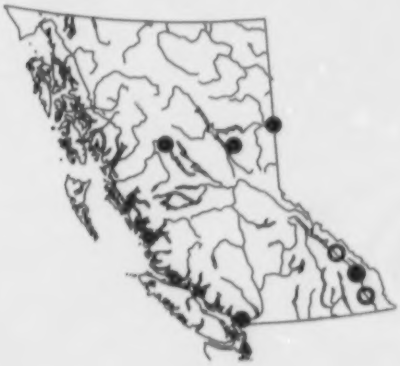


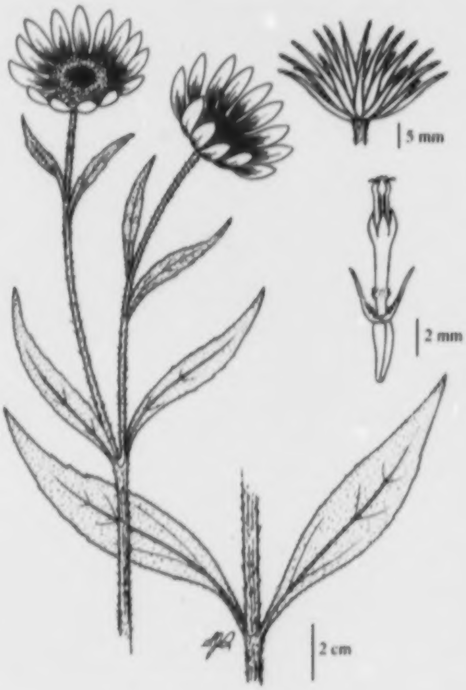
Helianthus nuttallii **T. & G. var. *nuttallii***

Nuttall's sunflower

Habitat/Range: Wet to moist fields and meadows in the lowland and montane zones (BWBSmw1, CWHxm1, IDFdm2, IDFun, PPdh2, SBSwk2); rare in BC, known from several widely scattered locations, probably introduced on S Vancouver Island and in Smithers; E to NF and S to MN, GA, NM, AZ, NV and OR.

Global/Provincial Rank: G5T5 S1 Status: Red



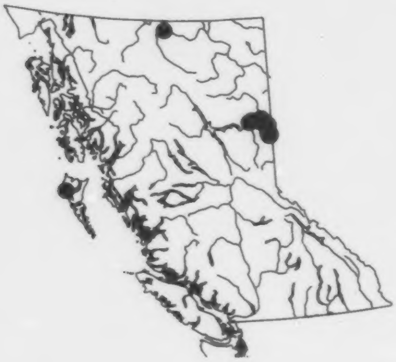


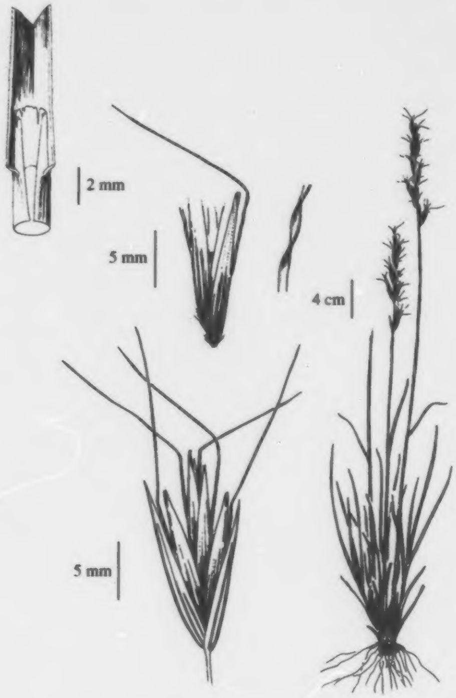
***Helictotrichon hookeri* (Scribn.) Henrard** (*Avenochloa hookeri* [Scribn.] Holub)

spike-oat

Habitat/Range: Mesic to dry forest openings, grassy slopes and meadows in the montane and subalpine zones (BWBSdk2, BWBSmw1); rare in N BC; N to SW YT and SW NT, E to S MB, disjunct in SW PQ and S to MN, SD and NM.

Global/Provincial Rank: G5 S2S3 Status: Blue





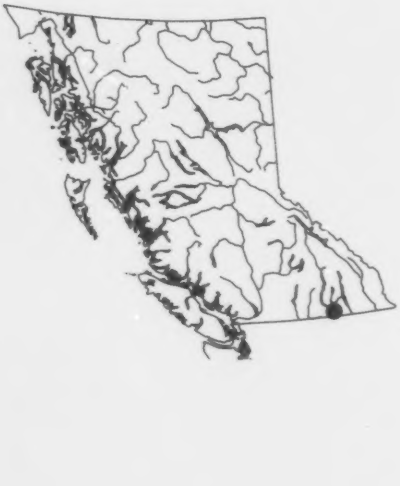
***Hesperochiron pumilus* (Griseb.) Porter**

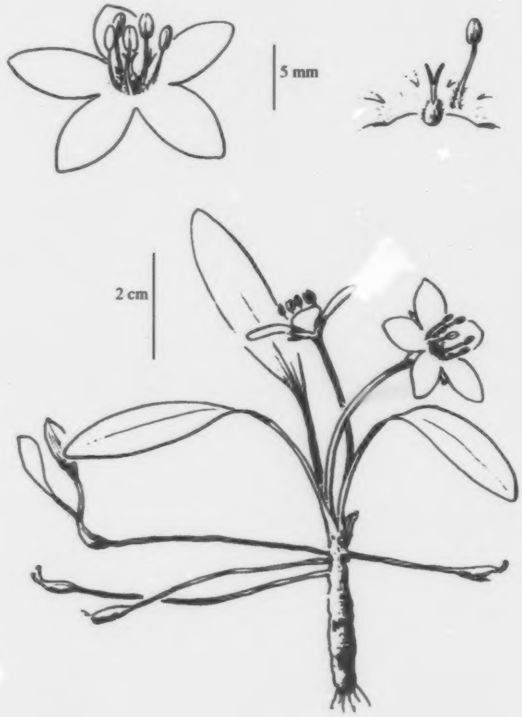
dwarf hesperochiron

Habitat/Range: Moist meadows and seepage sites in the montane zone (ICHdw); rare in SE BC, known only from Salmo; S to ID, AZ, NV and CA.

Global/Provincial Rank: G4 S1 Status: Red

Notes: For colour illustration see Clark (1976) and Taylor (1992).



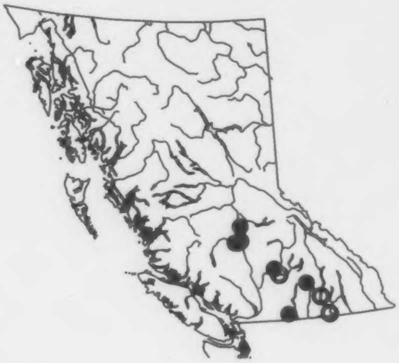


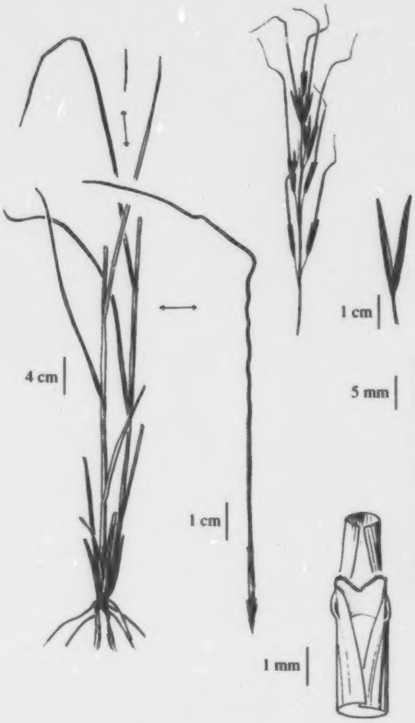
***Hesperostipa spartea* (Trin.) Barkw.** (*Stipa spartea* Trin.)

porcupinegrass

Habitat/Range: Dry to mesic, grassy slopes and open forests in the steppe and montane zones (BGxh1, BGxh2, ICHdw, ICHmw2, IDFmw1, IDFxm); rare in SC BC; E to ON and S to PA, OH, IN, MO, OK and NM.

Global/Provincial Rank: G5 S1 Status: Red



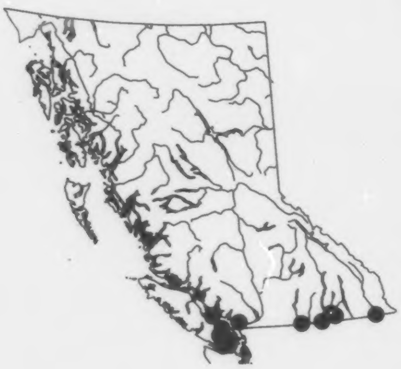


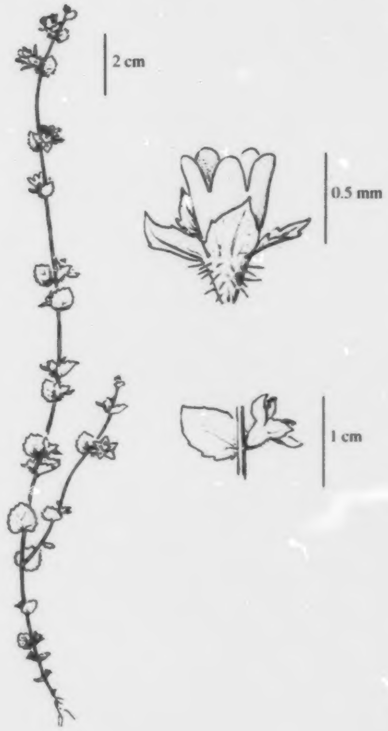
***Heterocodon rariflorum* Nutt.**

heterocodon

Habitat/Range: Moist sites in the lowland and lower montane zones (CDFmm, CWHmm2, CWHxm1, CWHxm2, ICHdw, IDFdm1, IDFdm2, IDFxh1); rare in BC south of 51°N; S to WY, NV and CA.

Global/Provincial Rank: G5 S3 Status: Blue



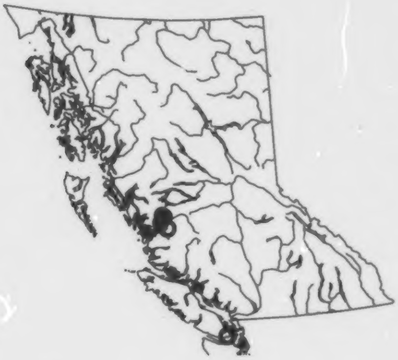


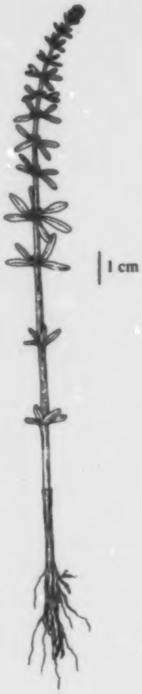
***Hippuris tetraphylla* L.f.**

four-leaved mare's-tail

Habitat/Range: Saline or brackish marshes, tidal flats and shallow ponds in the lowland zone (CDFmm, CWHds2, CWHms2); rare in coastal BC; N to AK, YT and NT and E to Labr.

Global/Provincial Rank: G5 S2S3 Status: Blue



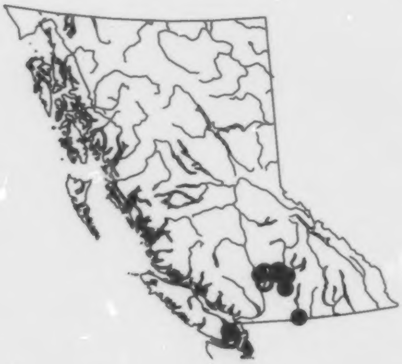


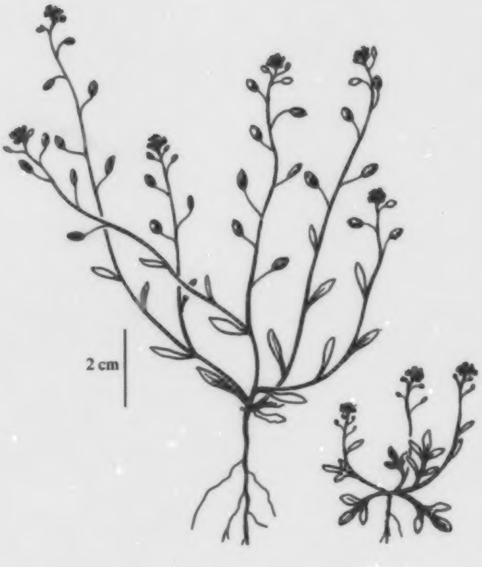
***Hutchinsia procumbens* (L.) Desv.** (*Hymenolobus procumbens* [L.] Nutt. *ex* T. & G.)

hutchinsia

Habitat/Range: Moist saline or alkaline sites in the lowland, steppe and montane zones (BGxh1, BGxh2, BGxw1, CDFmm, CWHxm2, IDFxh2); rare in S BC; cosmopolitan, E to NF and S to CO and CA; Chile, Eurasia, N Africa and Australia.

Global/Provincial Rank: G5 S1 Status: Red





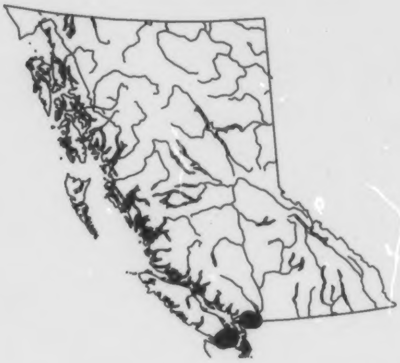
Hydrophyllum tenuipes **Heller**

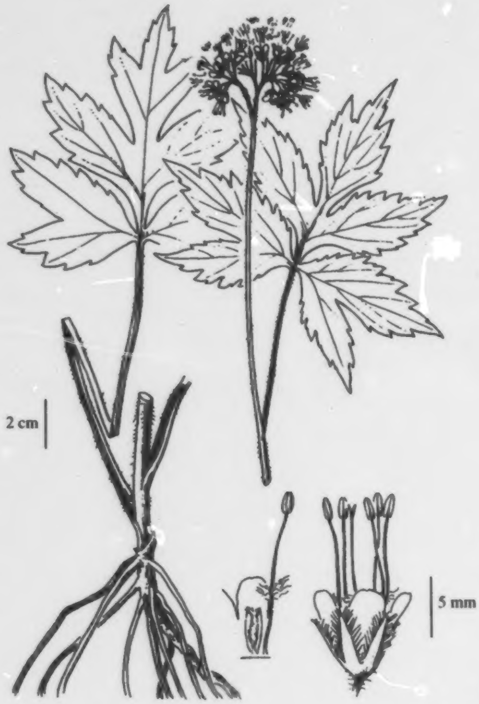
Pacific waterleaf

Habitat/Range: Moist woodlands and streambanks in the lowland zone (CDFmm, CWHdm, CWHxm1); rare on S Vancouver Island and in the lower Fraser Valley; S to N CA.

Global/Provincial Rank: G4G5 S2S3 Status: Blue

Notes: For colour illustration, see Clark (1976).



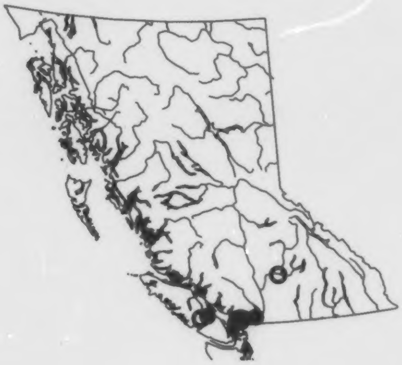


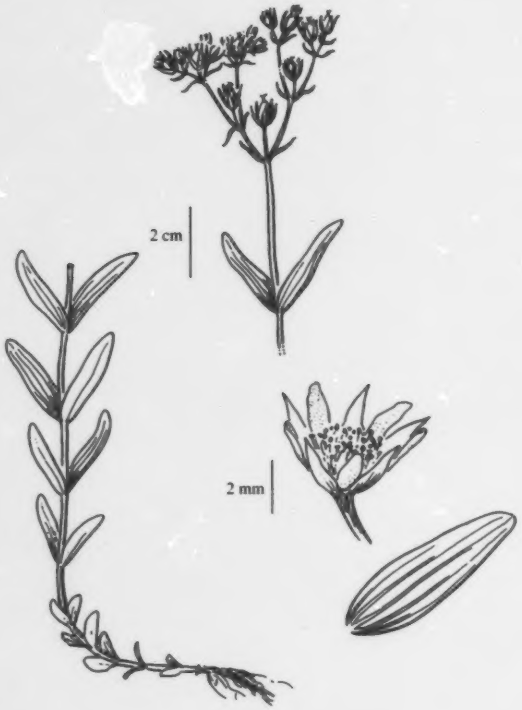
Hypericum majus **(A. Gray) Britt.**

large Canadian St. John's-wort

Habitat/Range: Moist to wet waste places, vernal pools, gravelly shorelines and tidal shores in the lowland zone (CDFmm, CWHdm, CWHxm1); rare in SW and SC BC; E to NF and S to DE, PA, NE, CO and WA.

Global/Provincial Rank: G5 S2S3 Status: Blue



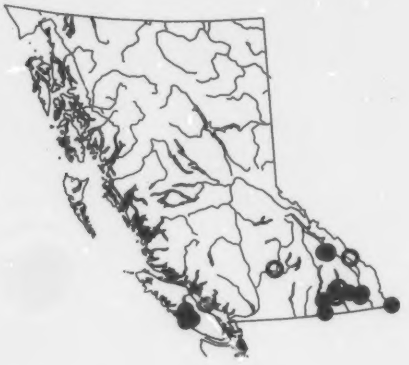


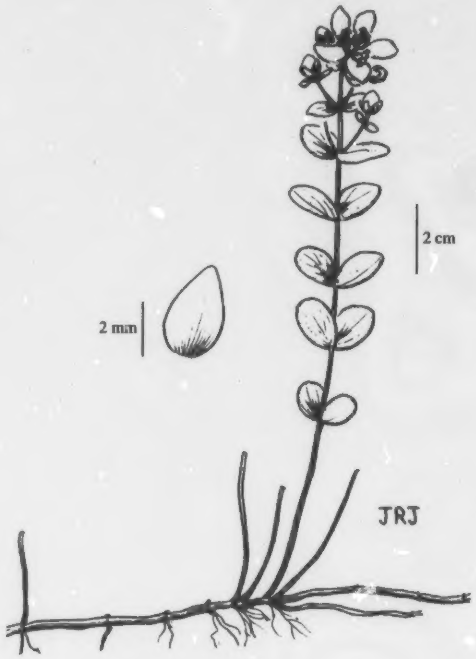
***Hypericum scouleri* Hook. ssp. *nortoniae* (M.E. Jones) J. Gillett** (*H. formosum auct. non* H.B.K., *H. formosum* Kunth var. *nortoniae* [M.E. Jones] C.L. Hitchc.)

western St. John's-wort

Habitat/Range: Moist sites in the lowland, montane and subalpine zones (CWHvh1, CWHvm1, CWHxm1, ESSFdk, ESSFwc4, ESSFwcp4, ICHdw, IDFdm2, IDFxh2, PPdh2); rare throughout S BC; S to MT, WY, CA and MX.

Global/Provincial Rank: G5T? S2S3 Status: Blue



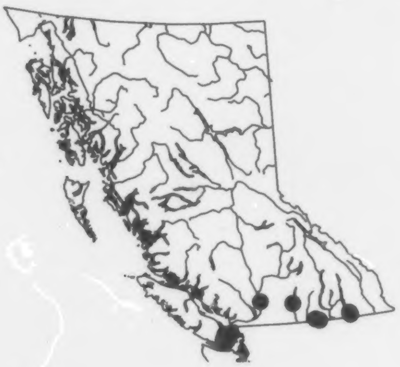


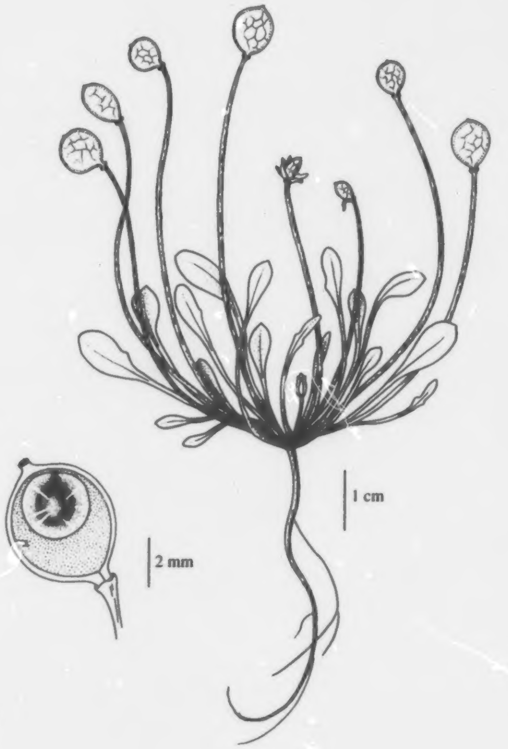
***Idahoa scapigera* (Hook.) A. Nels. & J.F. Macbr.**

scalepod

Habitat/Range: Moist seepages to dry rocky slopes in the lowland, steppe and montane zones (CDFmm, CWHxm1, CWHxm2, ICHxw, IDFww, PPxh1); rare in S BC; S to ID and CA.

Global/Provincial Rank: G5 S2 Status: Red



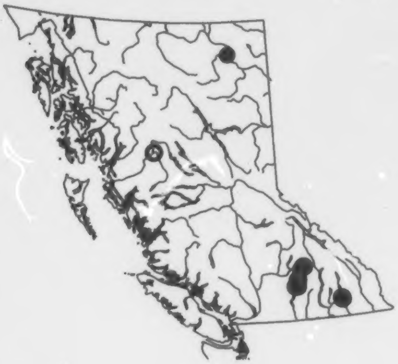


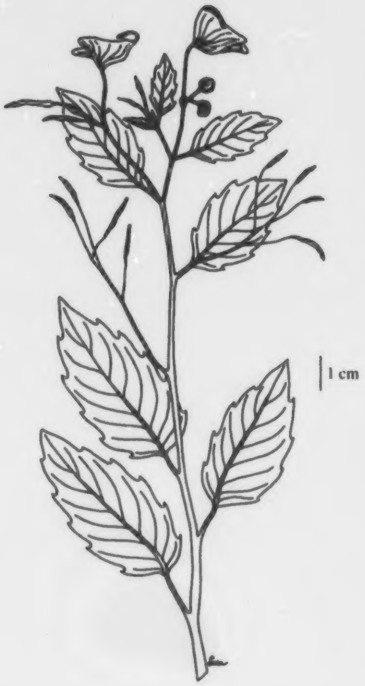
Impatiens aurella **Rydb.**

orange touch-me-not

Habitat/Range: Moist streambanks and meadows in the steppe and lower montane zones (BWBSmw2, ICHdw, ICHmc2, ICHmw3, IDFxh1, IDFxh1a); rare in BC east of the Coast-Cascade Mountains; S to ID and MT.

Global/Provincial Rank: G4? S2S3 Status: Blue



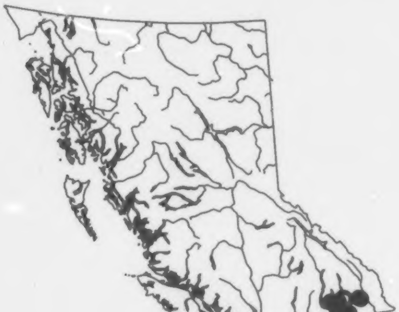


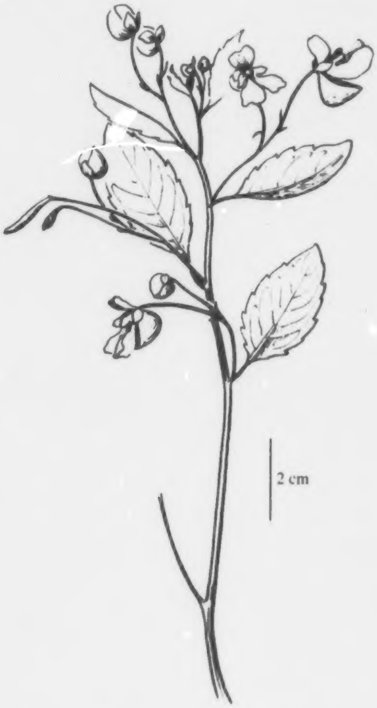
Impatiens ecalcarata **Blank.** (*I. biflora* Walt. var. *ecalcarata* [Blank.] M. E. Jones)

spurless touch-me-not; western touch-me-not

Habitat/Range: Moist forests in the montane zone (ICHdw, ICHxw, IDFdm2); rare in SE BC; S to MT and N OR.

Global/Provincial Rank: G3G4 S2S3 Status: Blue



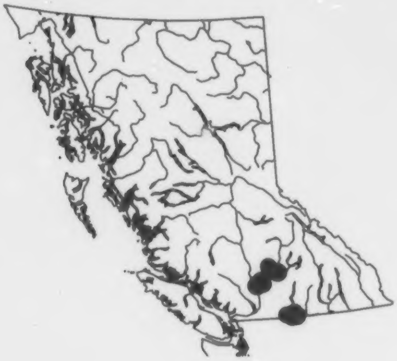


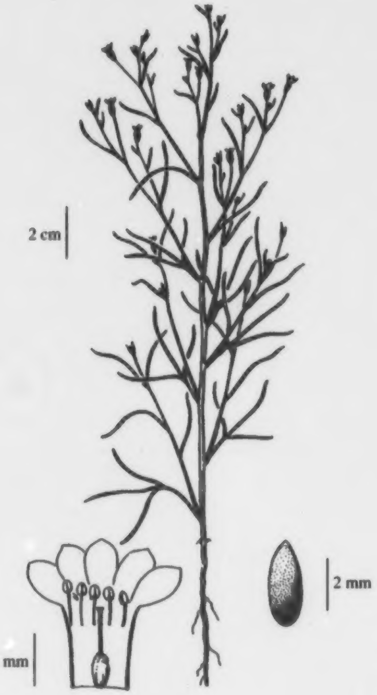
Ipomopsis minutiflora **(Benth.) V. Grant** (*Gilia minutiflora* Benth.)

small-flowered ipomopsis

Habitat/Range: Dry, open, often sandy sites in the steppe and montane zones (BGxh1, BGxh2, IDFdk1, IDFxh2, PPxh2); rare in SC BC; S to N ID and N OR.

Global/Provincial Rank: G2G3 S2 Status: Red





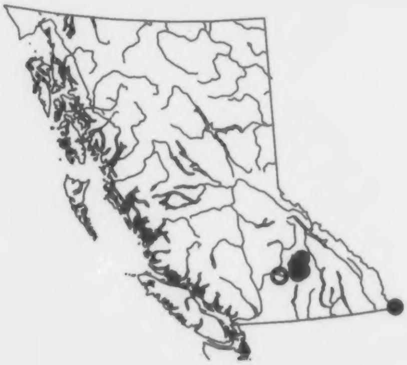
Isoetes howellii **Engelm.**

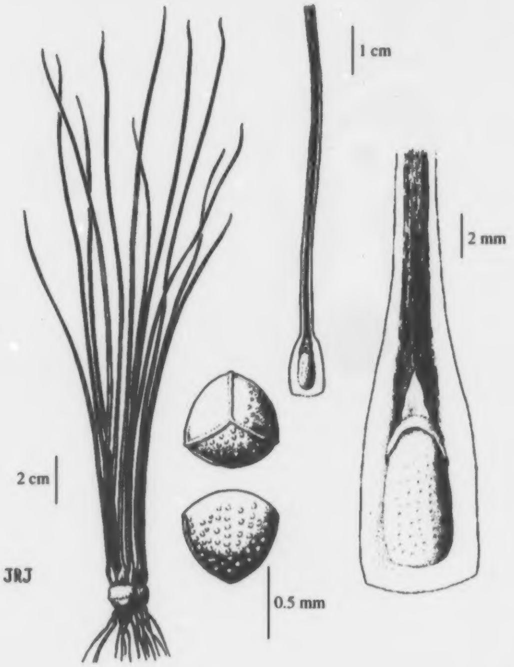
Howell's quillwort

Habitat/Range: Lake margins (exposed in summer) in the steppe and montane zones (BGxh2, ESSFdk, ICHmw2, ICHmw3, IDFmw2); rare in SC and SE BC; S to MT and CA, disjunct in N UT.

Global/Provincial Rank: G4G5 S1 Status: Red

Notes: Some BC collections of this species have previously been identified as *I. bolanderi* Engelm. The latter species has yet to be found in BC but may be expected, especially in the Akamina-Kishinena area of SE BC since it has been recorded from adjacent SW AB (Brunton 1994).



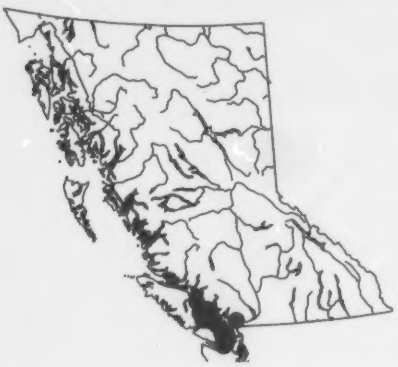


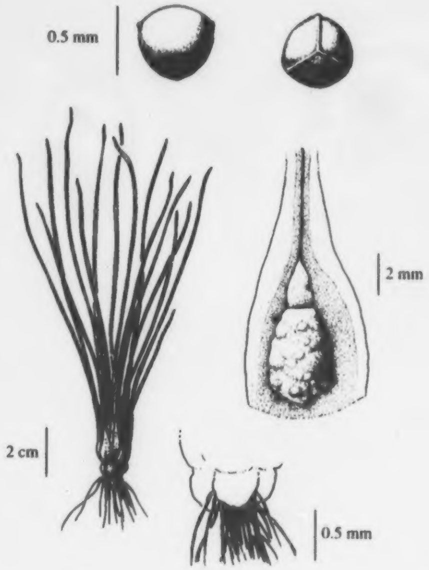
***Isoetes nuttallii* A. Br.**

Nuttall's quillwort

Habitat/Range: Vernal pools and ephemeral winter seepages in the lowland zone (CDFmm, CWHxm1, CWHxm2); rare in extreme SW BC; S to CA.

Global/Provincial Rank: G4? S3 Status: Blue



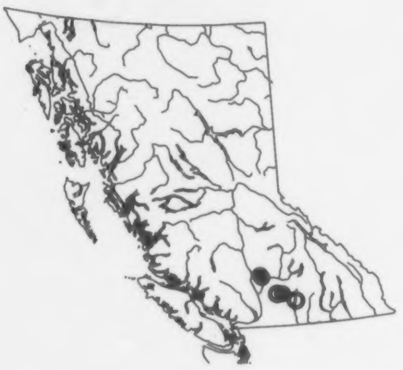


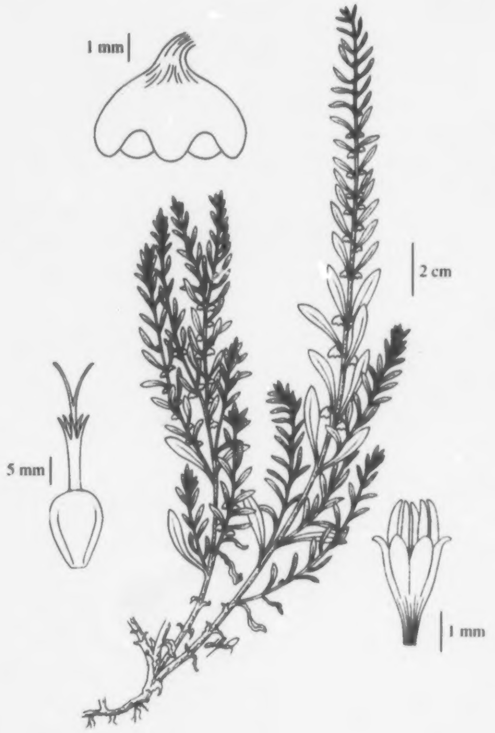
***Iva axillaris* Pursh ssp. *robustior* (Hook.) Bassett**

poverty-weed

Habitat/Range: Dry disturbed areas in the steppe zone (BGxh2, BGxw1); rare in SC BC; E to MB and S to OK and CA.

Global/Provincial Rank: G5T? S1 Status: Red



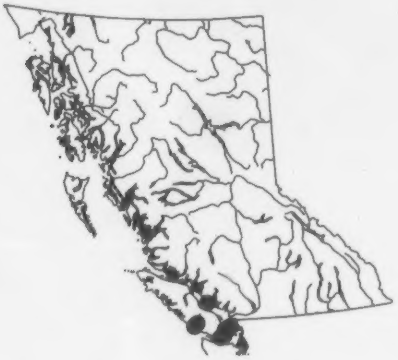


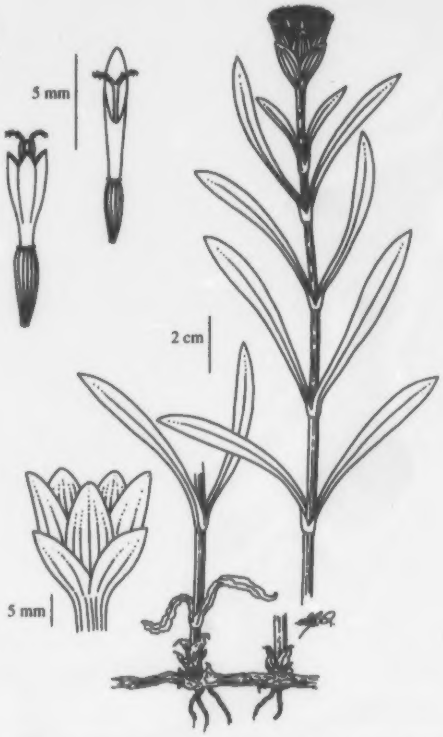
Jaumea carnosa **(Less.) A. Gray**

fleshy jaumea

Habitat/Range: Moist tidal beaches and salt marshes in the lowland zone (CDFmm, CWHvh1, CWHvm1, CWHxm1); rare on S Vancouver Island and adjacent islands; S to CA.

Global/Provincial Rank: G4G5 S2S3 Status: Blue



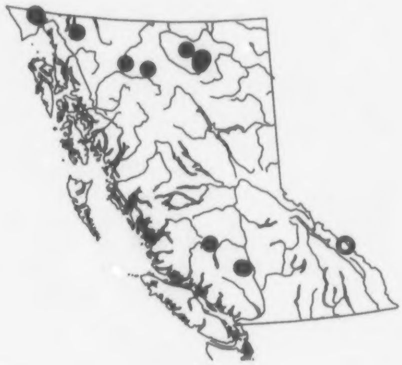


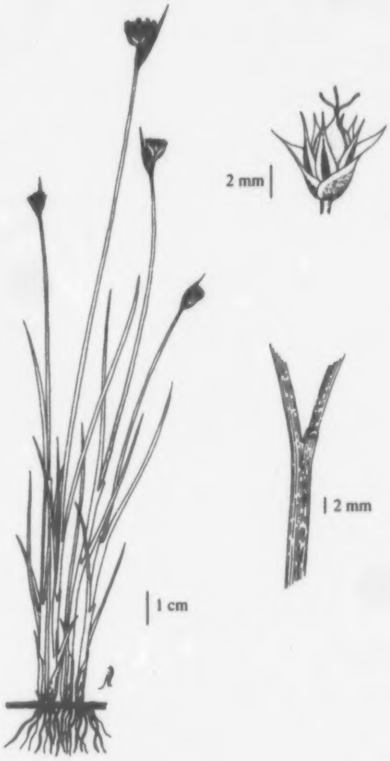
Juncus albescens **(Lange) Fern.** (*J. triglumis* L. var. *albescens* Lange)

whitish rush

Habitat/Range: Wet calcareous fens in the montane to alpine zones (AT, BWBSdk1, ESSFdk, MSdc1, SBPSxc, SWBdk, SWBmk); rare in BC east of the Coast Mountains; N to AK, YT and NW NT, S to NM, UT, ID and OR.

Global/Provincial Rank: G5 S2S3 Status: Blue



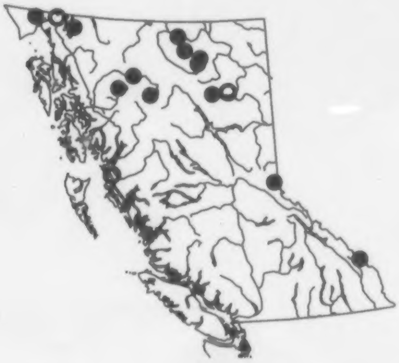


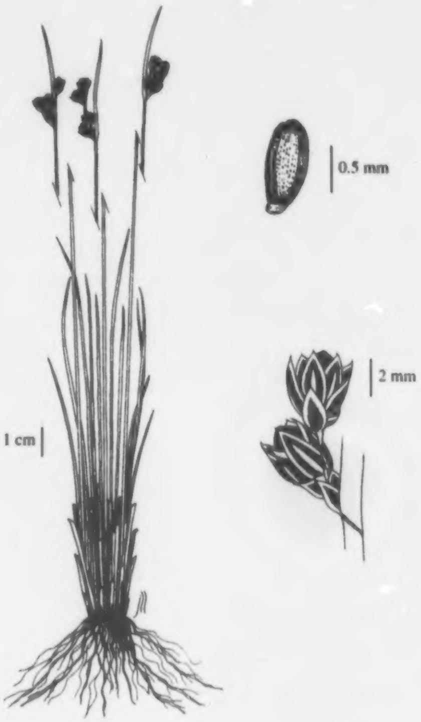
Juncus arcticus **Willd. ssp.** ***alaskanus*** **Hult.**

arctic rush

Habitat/Range: Lakeshores in the montane to subalpine zones (BWBSdk1, BWBSdk2, BWBSmw2, ESSFdk, ESSFwk2, SBSun, SWBdk, SWBmk, SWBun); rare in N and E BC; amphiberingian, N to AK, YT and NT; Eurasia.

Global/Provincial Rank: G5T? S2S3 Status: Blue



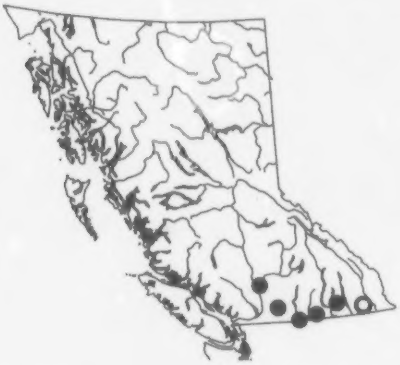


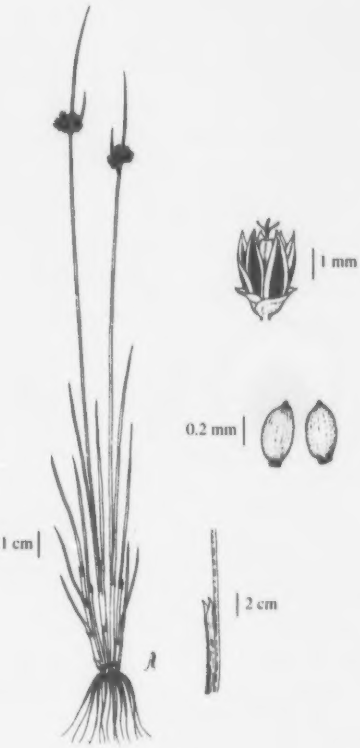
Juncus confusus **Cov.**

Colorado rush

Habitat/Range: Moist meadows and forest openings in the steppe and montane zones (BGxh1, ICHdw, ICHmk1, IDFxh1, MSdm2); rare in S BC; E to SK and S to SD, NM, AZ and CA.

Global/Provincial Rank: G5 S1 Status: Red



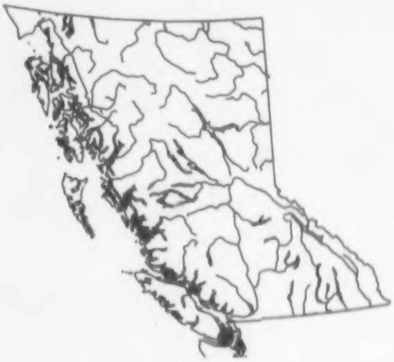


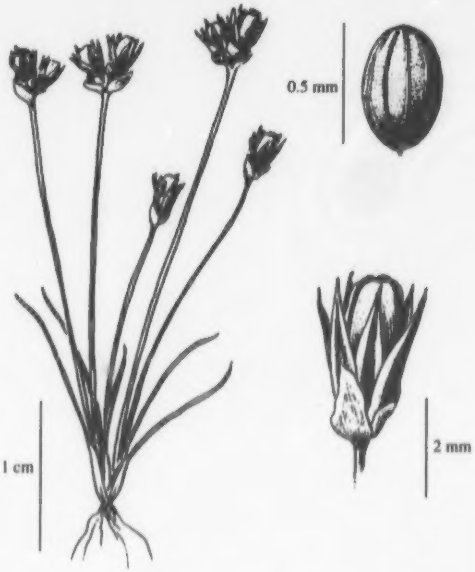
Juncus kelloggii Engelm.

Kellogg's rush

Habitat/Range: Seasonally wet depressions and vernal pools in the lowland zone (CDFmm); rare in SW BC, known only from Victoria; S to CA.

Global/Provincial Rank: G3? S1 Status: Red



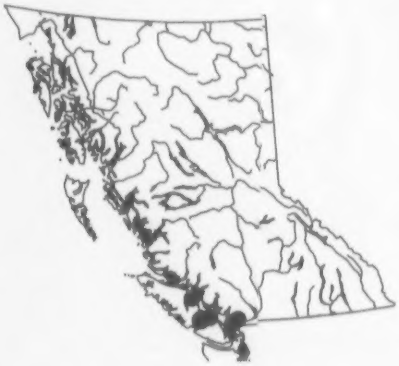


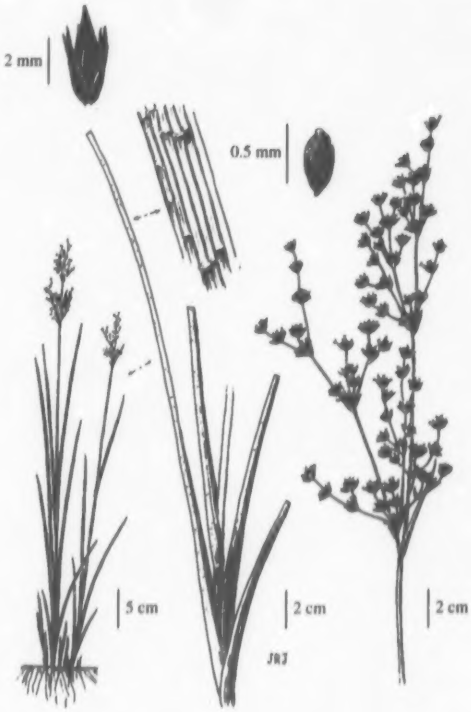
Juncus oxymeris Engelm.

pointed rush

Habitat/Range: Wet meadows and riverbanks in the lowland zone (CDFmm, CWHdm, CWHxm1, CWHxm2); rare in SW BC; S to CA.

Global/Provincial Rank: G5 S2S3 Status: Blue



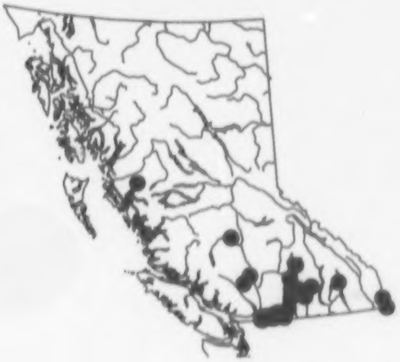


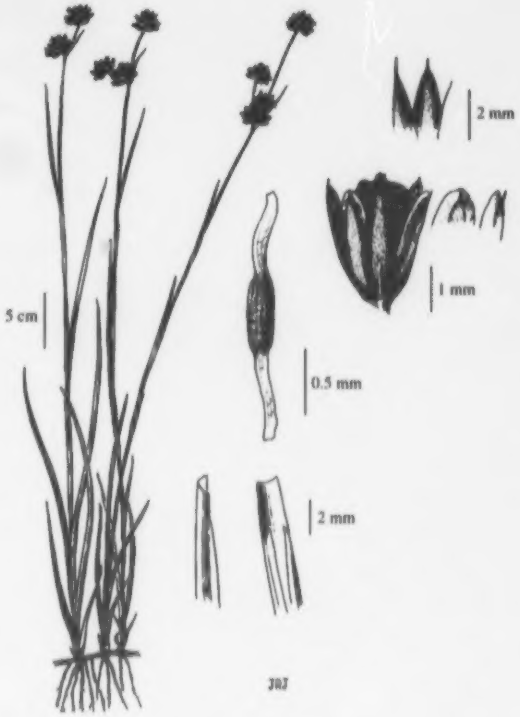
Juncus regelii **Buchenau**

Regel's rush

Habitat/Range: Wet streambanks and marshes in the steppe and montane zones (CWHds1, CWHms1, CWHvm, ESSFdk, ESSFmw, ESSFxc, ICHmk1, ICHmw2, IDFdk2, IDFmw2, IDFxh1, IDFxh2a, MSdk, MSdm1, MSdm2, PPxh1, PPxh2, SBPSxc); rare in BC south 55°N; E to AB and S to WY, NV and CA.

Global/Provincial Rank: G4? S3 Status: Blue



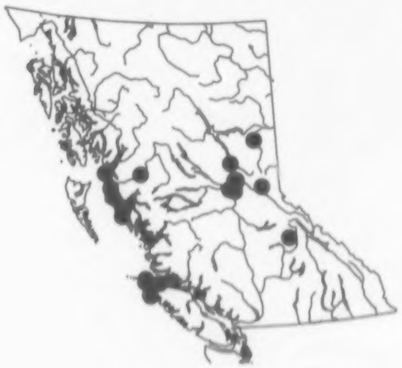


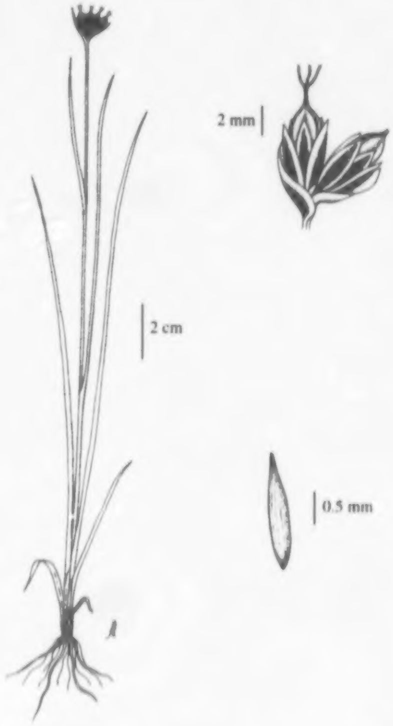
Juncus stygius **L.** (*J. stygius* var. *americanus* Buch.)

bog rush

Habitat/Range: Peat bogs in the lowland and montane zones (BWBSmw1, CWHvh1, CWHvh2, CWHvm1, CWHws1, ICHmw3, SBSdw3, SBSmh, SBSmk1, SBSvk, SBSwk1); rare in coastal BC north of 50° N and in EC BC; circumpolar, N to AK, YT and NT, E to NF and S to ME, MI, WI and MN; Eurasia.

Global/Provincial Rank: G5 S2S3 Status: Blue



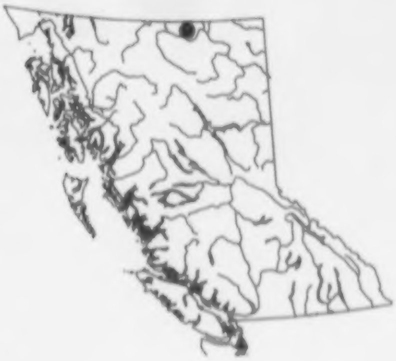


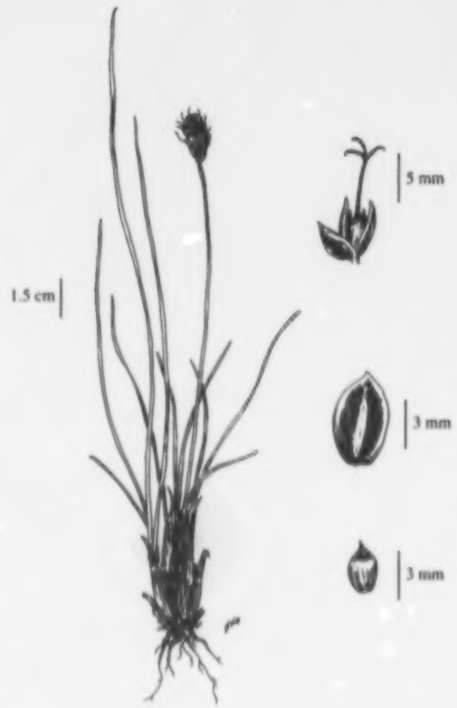
Kobresia sibirica **(Turcz. *ex* Ledeb.) Boeckl.**

Siberian kobresia

Habitat/Range: Bogs and wet meadows in the alpine zone (AT); rare in N BC, known only from the Liard Plateau; amphiberingian, N to AK, YT and NT and S to CO; E Asia.

Global/Provincial Rank: G5 S2S3 Status: Blue



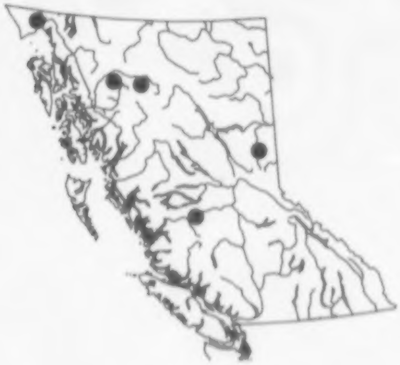


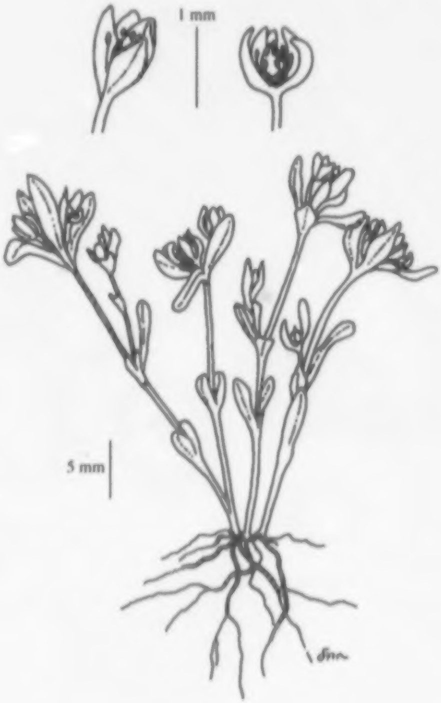
Koenigia islandica **L.**

Iceland koenigia

Habitat/Range: Moist to wet gravelly seepage sites in the subalpine and alpine zones (AT, SBPSmc, SWBdk, SWBun); rare in NW and C BC; circumpolar, N to AK, YT and NT, E to ON and S to CO.

Global/Provincial Rank: G4 S2S3 Status: Blue



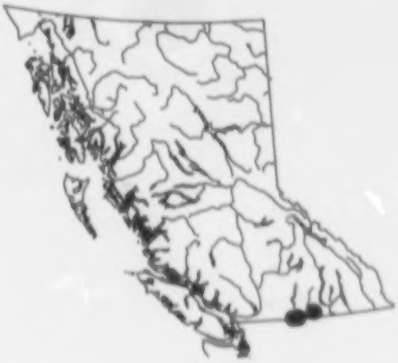


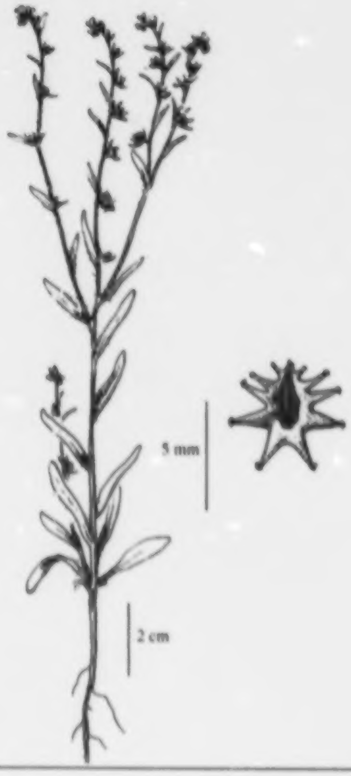
***Lappula occidentalis* (S. Wats.) Greene var. *cupulata* (A. Gray) Higgins** (*L. redowskii* var. *cupulata* [A. Gray] M.E. Jones, *L. texana* [Scheele] Britt.)

western stickseed

Habitat/Range: Xeric to mesic sites in the steppe and montane zones (BGxh1, ICHmk1); rare in SC BC; S to S America; Eurasia

Global/Provincial Rank: G5T5 S1 Status: Red



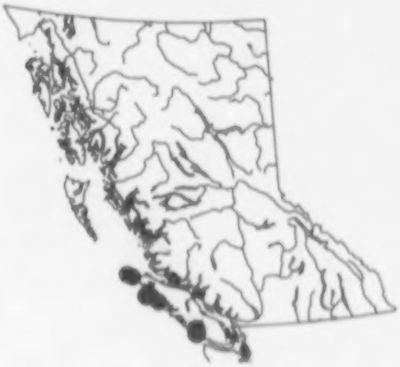


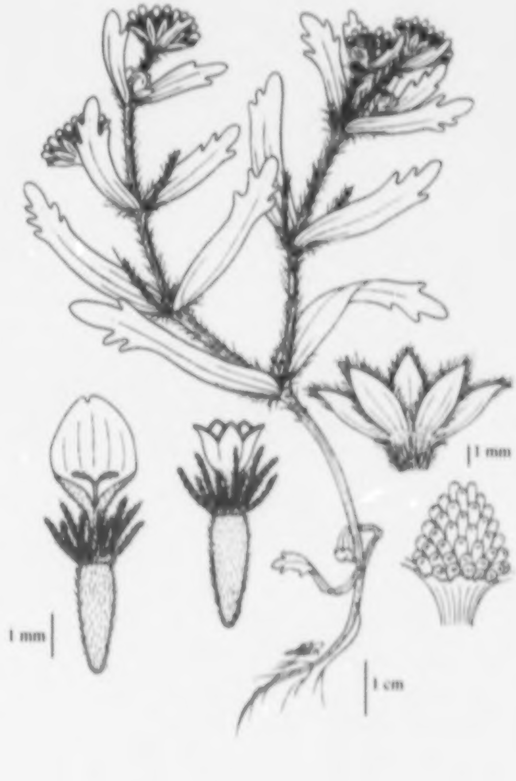
***Lasthenia maritima* (A. Gray) Vasey** (*Baeria maritima* A. Gray, *Lasthenia minor* [DC.] Ornduff ssp. *maritima* [A. Gray] Ornduff)

hairy goldfields; maritime goldfields

Habitat/Range: Mesic, often nitrified from guano, rocky coastal cliffs and islands in the lowland zone (CWHvh1); rare in SW BC; S to CA.

Global/Provincial Rank: G4 S2S3 Status: Blue



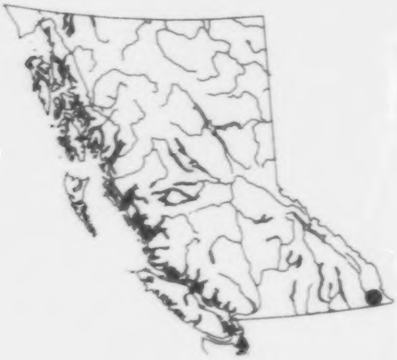


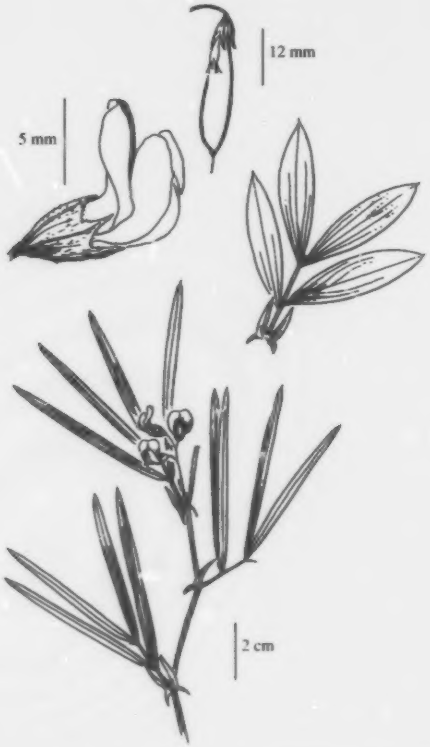
Lathyrus bijugatus White

pinewood peavine

Habitat/Range: Dry open forests and clearings in the montane zone (IDFdm2); rare in SE BC, known only from Elko; S to ID and E WA.

Global/Provincial Rank: G4 S1 Status: Red



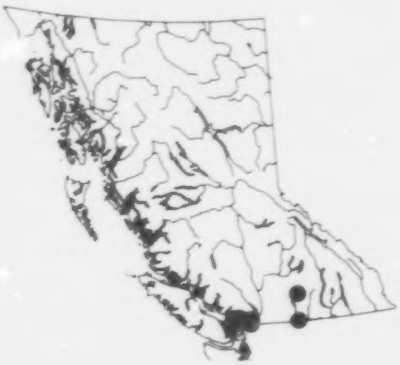


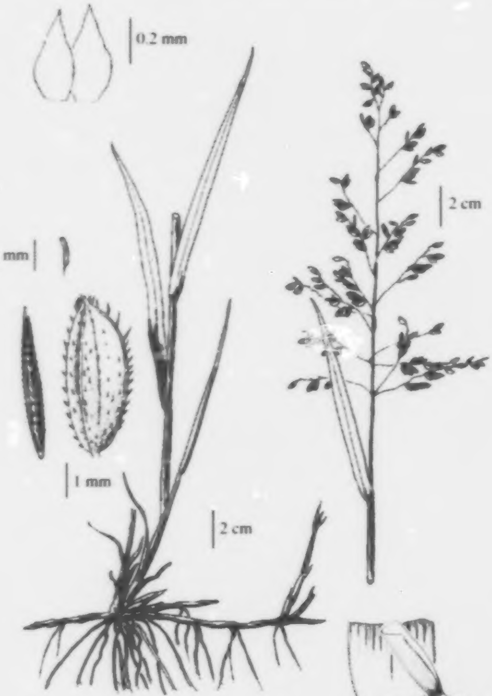
Leersia oryzoides (L.) Swartz

rice cutgrass

Habitat/Range: Swamps, lakeshores and wet ditches in the lowland and steppe zones (BGxh1, CDFmm, CWHdm, CWHxm1, IDFxh1a); rare in SC (Osoyoos and Ellison Lakes) and SW BC (lower Fraser Valley); circumpolar, E to NB and S to ME, MA, PA, NC, FL, MS, LA, TX, NM, AZ and CA; Eurasia, S America.

Global/Provincial Rank: G5 S2S3 Status: Blue



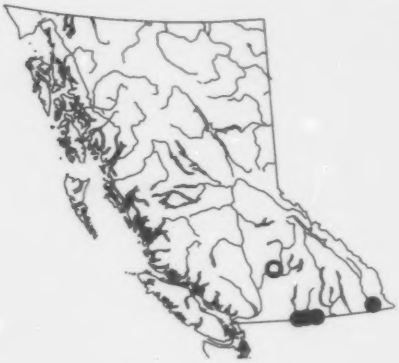


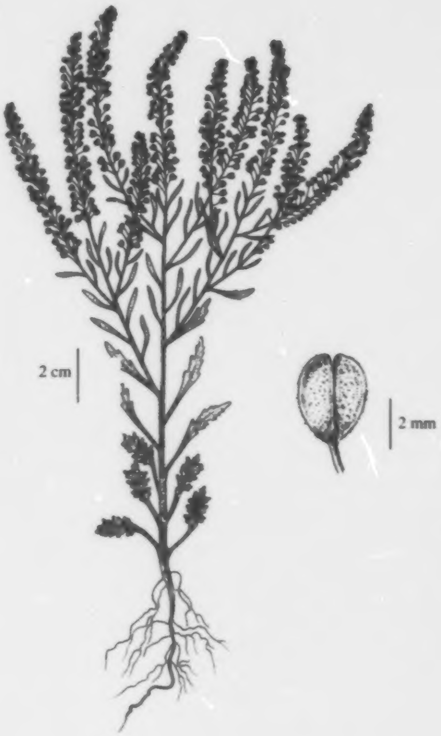
Lepidium densiflorum Schrad. var. _pubicarpum_ (A. Nelson) Thell.

prairie pepper-grass

Habitat/Range: Dry, open sites in the steppe and montane zones (BGxh1, IDFdm2, IDFxh1); rare in SC and SE BC; S to VT and CA.

Global/Provincial Rank: G5T4 S1 Status: Red



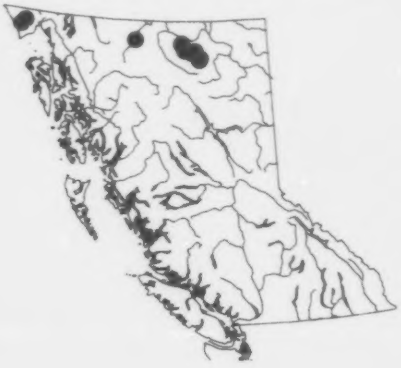


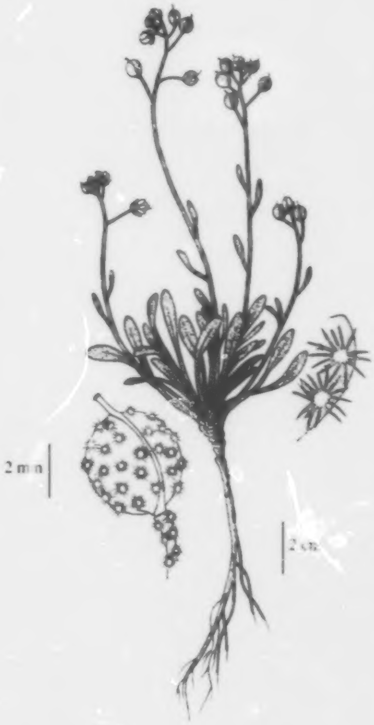
Lesquerella arctica (Wormsk. _ex_ Hornem.) S. Wats. var. _arctica_ (*L. purshii* [S. Wats.] Fern. var. *arctica*)

arctic bladderpod

Habitat/Range: Mesic to dry gravel bars, river terraces, scree slopes and rocky slopes in the montane to alpine zones (AT, BWBSdk1, BWBSdk2, BWBSmw2, BWBSvk, SWBmk); rare in N BC; amphiberingian, N to AK, YT and NT; NW Asia.

Global/Provincial Rank: G4T4 S2S3 Status: Blue





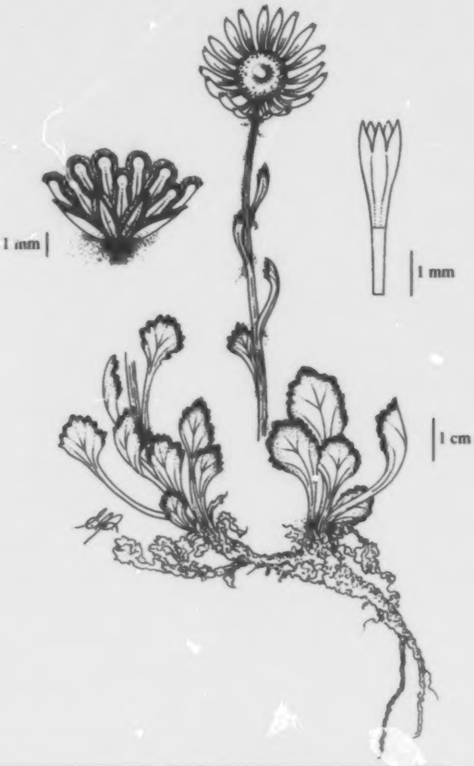
Leucanthemum arcticum **(L.) A. DC.** *(Chrysanthemum arcticum* L.*)*

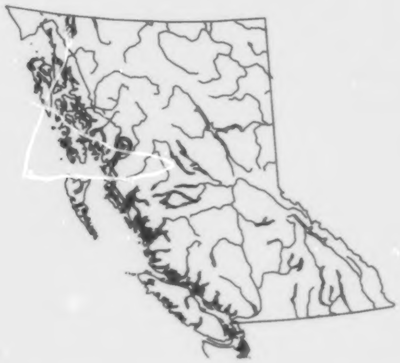
arctic daisy

Habitat/Range: Wet to moist salt marshes and gravelly shores in the lowland zone (CWHwm); rare on the NW coast, known only from Larcom Island in Observatory Inlet; amphiberingian, N to AK, YT and NT and E to PQ; E Asia.

Global/Provincial Rank: G5 SH Status: Red

Notes: The only BC collection of this species was made in 1893. For colour illustration see White and Williams (1974).



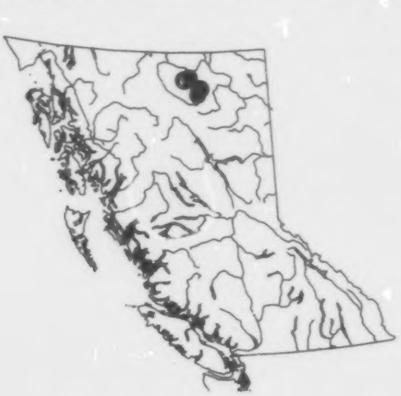


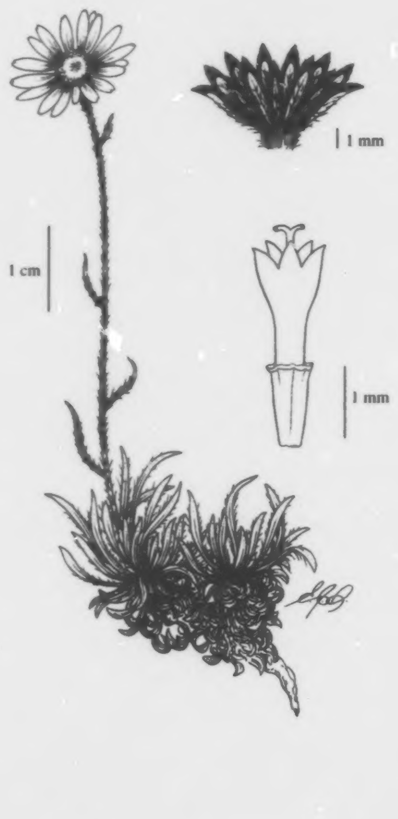
Leucanthemum integrifolium **(Rich.) DC.** (*Chrysanthemum integrifolium* Rich.)

entire-leaved daisy

Habitat/Range: Moist to mesic gravelly sites in the subalpine and alpine zones (AT, SWBmk); rare in NE BC; amphiberingian, N to AK, YT and NT and E to PQ; E Asia.

Global/Provincial Rank: G5 S2S3 Status: Blue



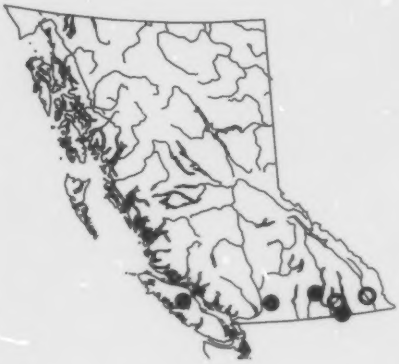


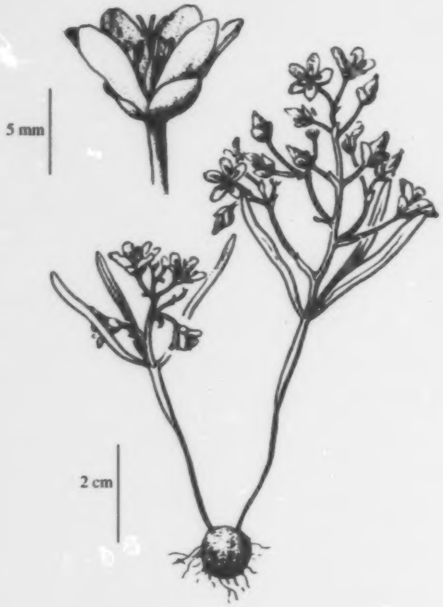
Lewisia triphylla **(S. Wats.) B.L. Robins.**

three-leaved lewisia

Habitat/Range: Moist gravelly slopes, meadows, open forests and sandy snowbed sites from the montane to alpine zones (AT, ESSFdcp2, ESSFwc4, ICHdw, IDFdm2); rare in S BC; S to MT, CO and CA.

Global/Provincial Rank: G4? S2S3 Status: Blue





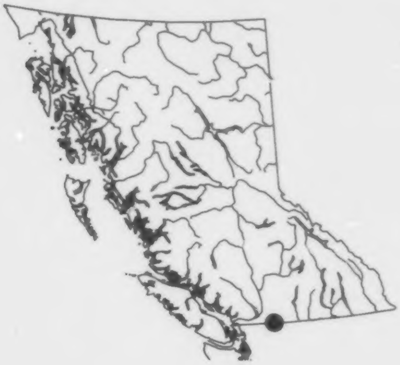
Lewisia tweedyi **(A. Gray) B.L. Robins.** (*Cistanthe tweedyi* [A. Gray] Hershkovitz)

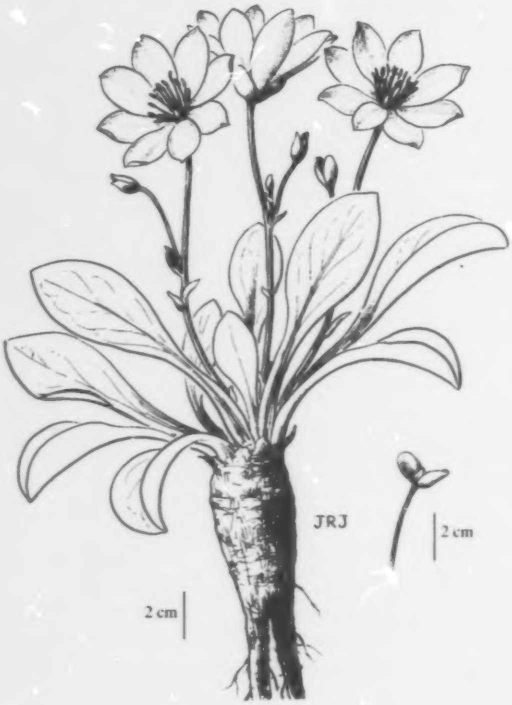
Tweedy's lewisia

Habitat/Range: Dry talus slopes and cliffs in the upper montane zone (ESSFmw); rare in SC BC, known only from Manning Provincial Park; S to C WA.

Global/Provincial Rank: G2G3 S1 Status: Red

Notes: For colour illustration see Clark (1976).





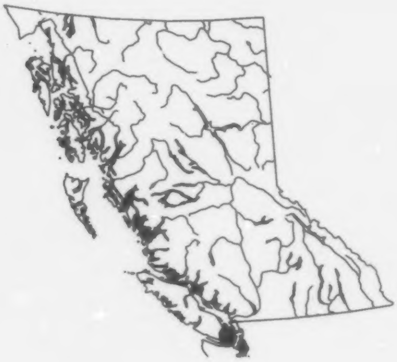
Leymus triticoides **(Buckl.) Pilger** (*Elymus triticoides* Buckl.)

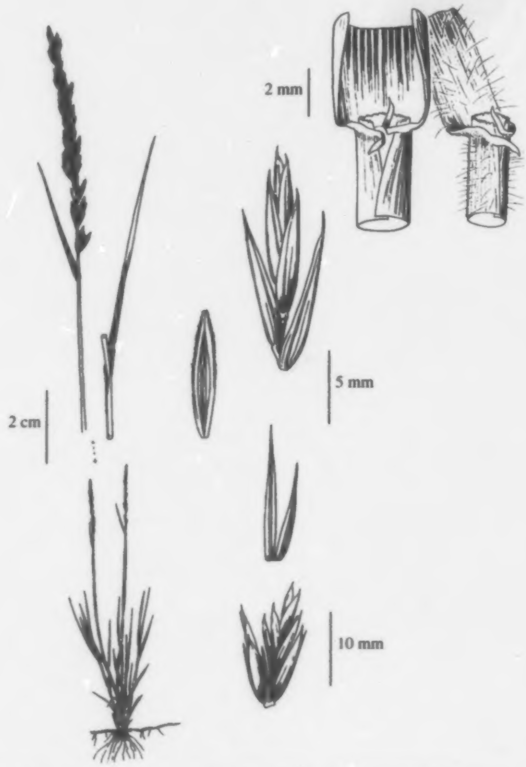
creeping wildrye

Habitat/Range: Mesic sand dunes in the lowland zone (CDFmm); rare in SW BC, known only from the Victoria area; S to TX, NM, AZ and CA.

Global/Provincial Rank: G4G5 S1 Status: Red

Notes: The first BC record for this species was made in 1993 (Douglas *et al.* 1994).



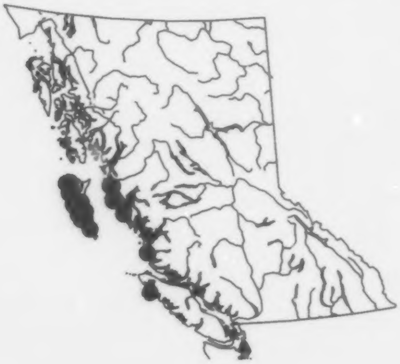


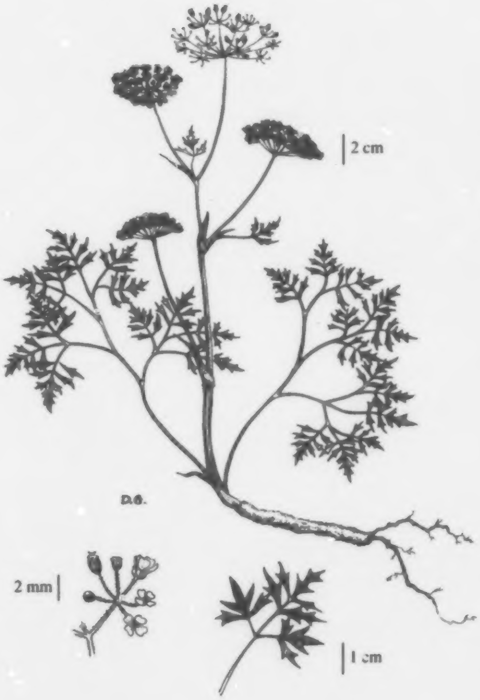
Ligusticum calderi **Mathias & Const.**

Calder's lovage

Habitat/Range: Wet to moist boggy or rocky slopes and meadows from the lowland to alpine zones (AT, CWHvh1, CWHvh2, CWHwh1, MHwh); locally frequent on the Queen Charlotte Islands, rare on N Vancouver Island and adjacent mainland (near-shore islands); N to SE AK.

Global/Provincial Rank: G3 S3 Status: Blue



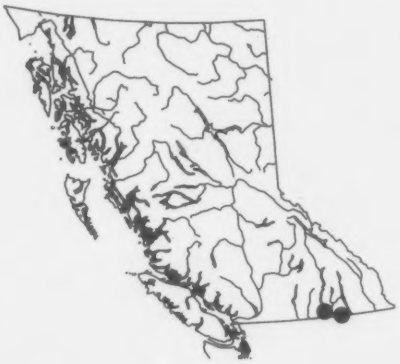


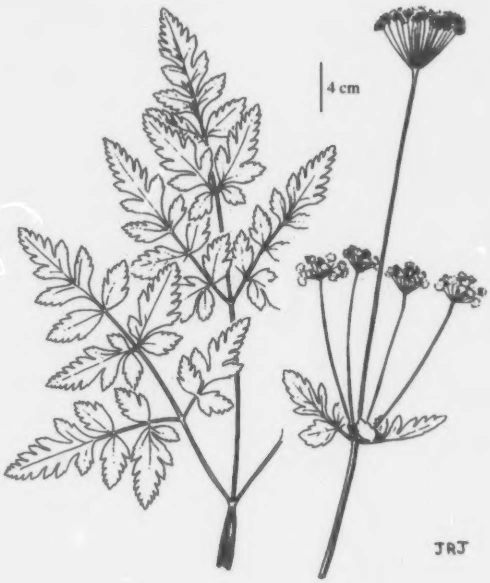
Ligusticum verticillatum (Geyer) Coult. & Rose _ex_ Rose

verticillate-umbel lovage

Habitat/Range: Moist to mesic streambanks, marshes, forest openings and meadows in the montane to subalpine zones (ESSFwc4); rare in SE BC; S to N ID and W MT.

Global/Provincial Rank: G4G5 S2S3 Status: Blue



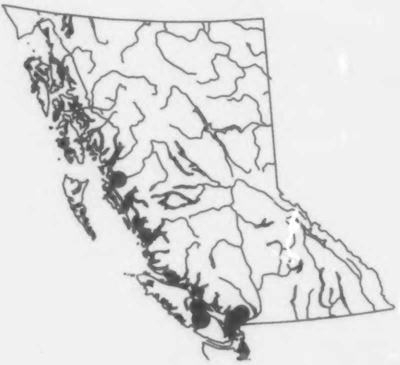


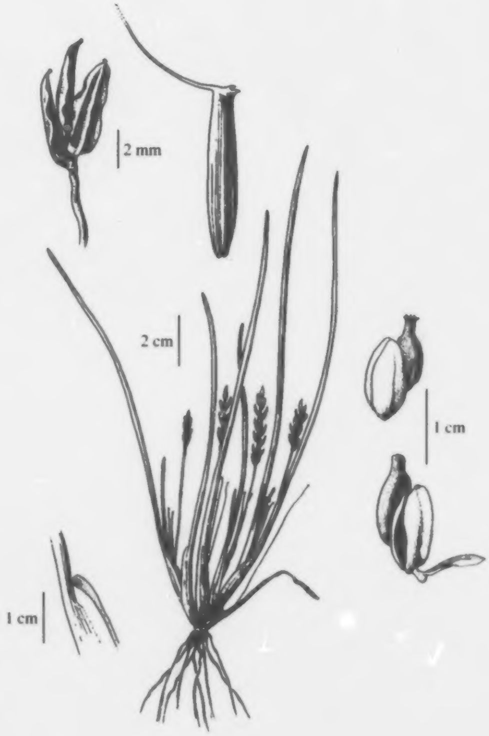
Lilaea scilloides (Poir.) Haum. (*L. subulata* Bonpl.)

flowering quillwort

Habitat/Range: Mud flats, ponds and marshes in the lowland zone (CDFmm, CWHdm, CWHvm, CWHxm1, CWHxm2); rare in coastal BC; E to S SK and S to MT, NV, CA and MX; S America.

Global/Provincial Rank: G5? S2S3 Status: Blue



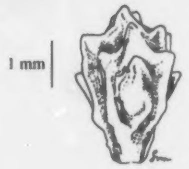


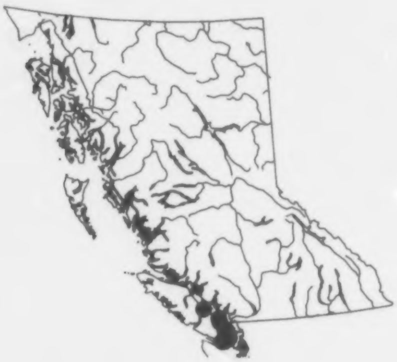
Limnanthes macounii Trel.

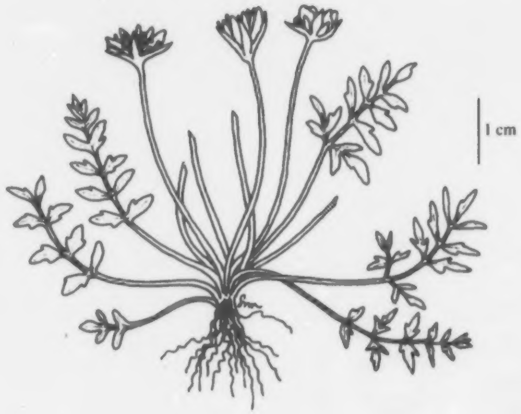
Macoun's meadow-foam

Habitat/Range: Wet depressions, vernal pools and seepage sites in the lowland zone (CDFmm, CWHxm1, CWHxm2); rare on SE Vancouver Island and adjacent islands; endemic.

Global/Provincial Rank: G3 S3 Status: Blue





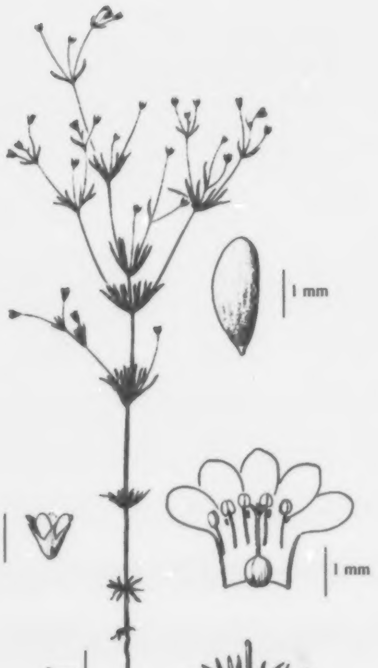


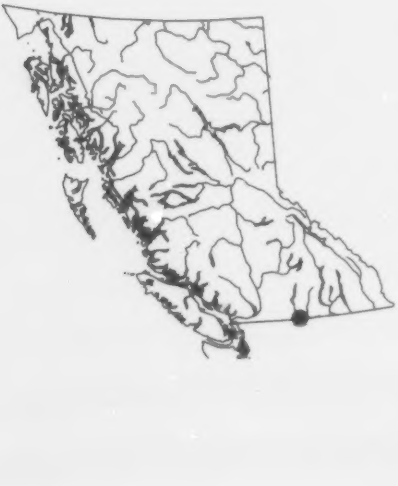
Linanthus harknessii **(Curran) Greene**

Harkness' linanthus; Harkness' flaxflower

Habitat/Range: Dry grasslands in the steppe zone (BGxh1); rare in SC BC, known only from Anarchist Mountain; S to ID, NV and CA.

Global/Provincial Rank: G4? S1 Status: Red



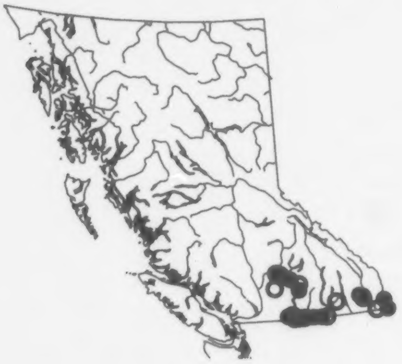


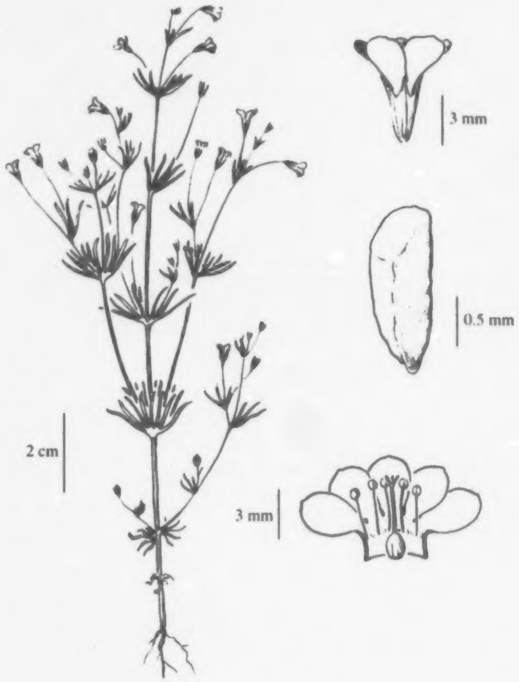
Linanthus septentrionalis **Mason**

northern linanthus; northern flaxflower

Habitat/Range: Dry slopes, meadows, sagebrush flats and forest openings in the steppe and montane zones (BGxh1, BGxh2, BGxw1, ESSFdk, ICHdw, ICHmk1, IDFdm1, IDFdm2, IDFxh1, IDFxh1a, IDFxh2a, MSdk, PPdh2); rare in SC and SE BC; E to SK and S to WY, CO and CA.

Global/Provincial Rank: G5 S2S3 Status: Blue



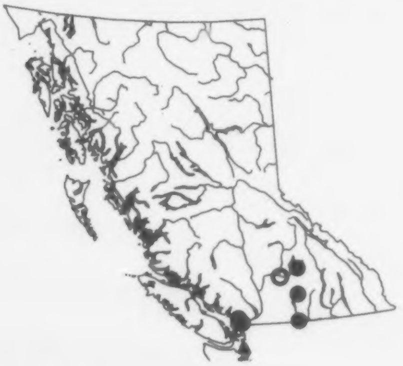


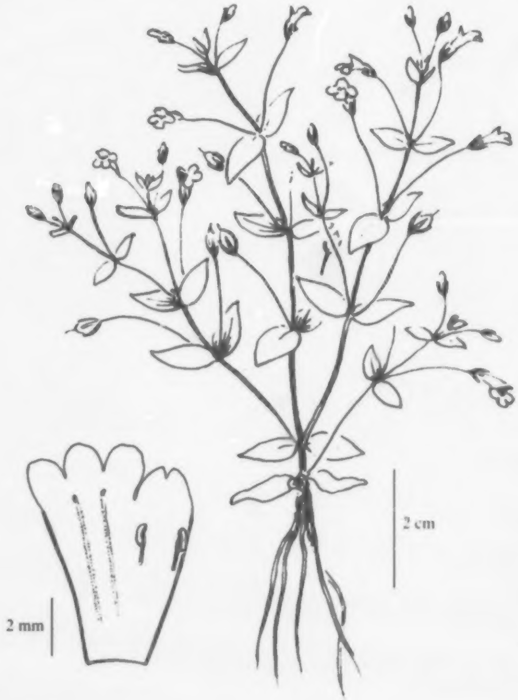
Lindernia dubia **(L.) Pennell var.** ***anagallidea*** **(Michx.) Cooperr.** (*L. anagallidea* [Michx.] Pennell)

false-pimpernel

Habitat/Range: Wet, sandy or muddy banks and shores in the lowland and steppe zones (BGxh1, BGxh2, CWHdm, CWHxm1, IDFxh1a); rare in SC BC and the lower Fraser Valley; disjunct E to ON and S to NH, NY, SC, FL, MS, TX, UT, AZ, CA and MX; S. America.

Global/Provincial Rank: G5T4 S2S3 Status: Blue





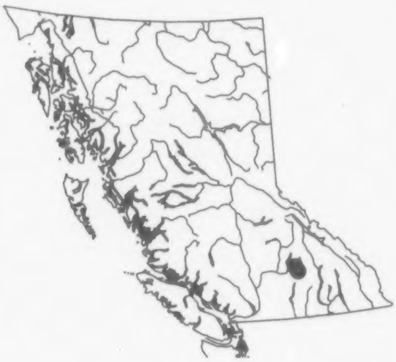
Liparis loeselii **(L.) L.C. Rich.**

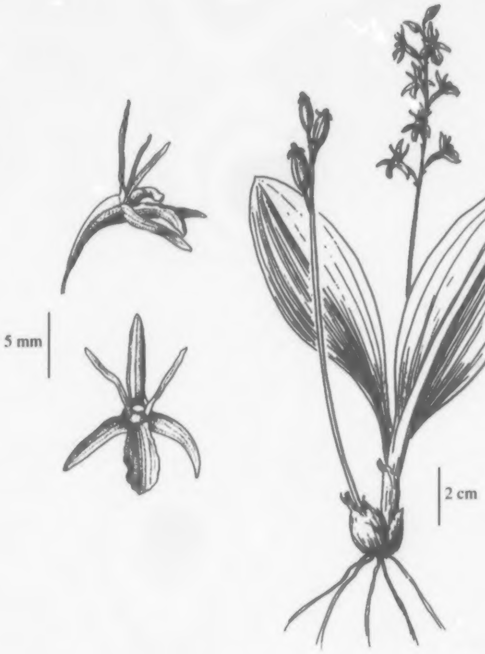
yellow widelip orchid; Loesel's liparis

Habitat/Range:

Moist thickets and fens in the montane zone (ICHmw2, IDFmw2); rare in SC BC, known only from Mara Meadows Ecological Reserve and White Lake (Salmon Arm); circumpolar, N to NT, E to NF and S to ME, MA, PA, NC, AL, AR, NE, MT and WA; Eurasia.

Global/Provincial Rank: G5 S1 Status: Red



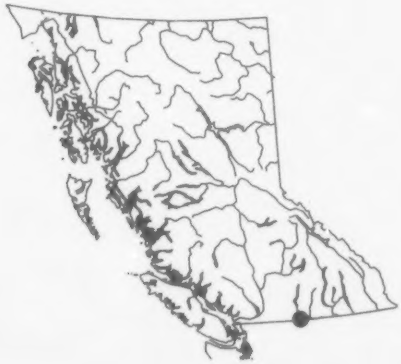


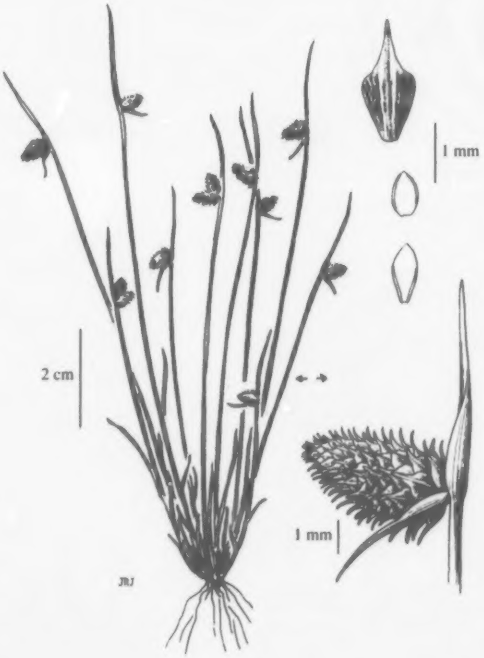
Lipocarpha micrantha **(Vahl) G. Tucker** (*Hemicarpha micrantha* [Vahl] Britt.)

small-flowered lipocarpha

Habitat/Range: Lakeshores in the steppe zone (BGxh1); rare in SC BC, known only from Osoyoos Lake; disjunct E to ON and S to ME, MA, PA, NC, FL, MS, TX, NM, AZ and CA.

Global/Provincial Rank: G4 S1 Status: Red



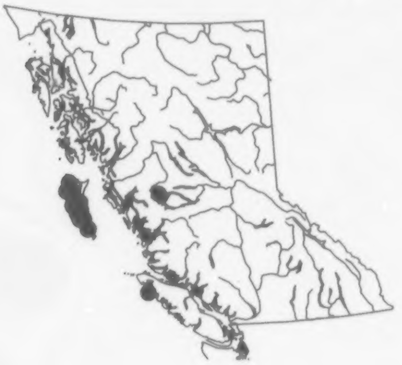


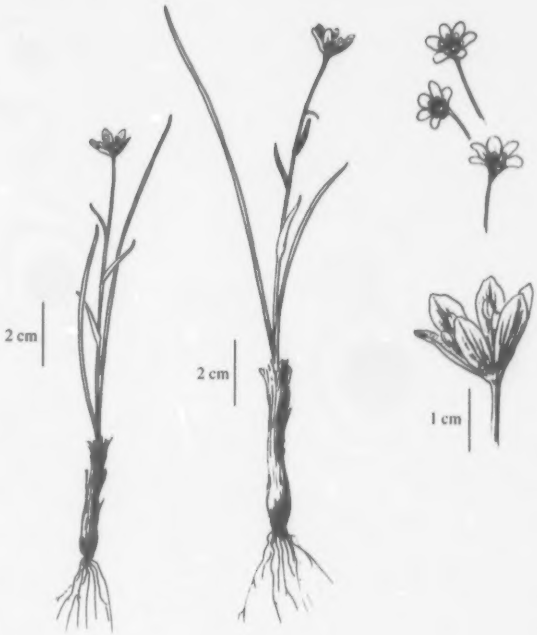
Lloydia serotina **(L.) Reichenb. var.** ***flava*** **(Calder & Taylor) Boivin**

alp lily

Habitat/Range: Mesic rocky slopes, rock crevices and gravelly meadows in the upper subalpine and alpine zones (AT, MHwh); rare on the Queen Charlotte Islands, NW Vancouver Island and WC BC; endemic.

Global/Provincial Rank: G5T3 S3 Status: Blue



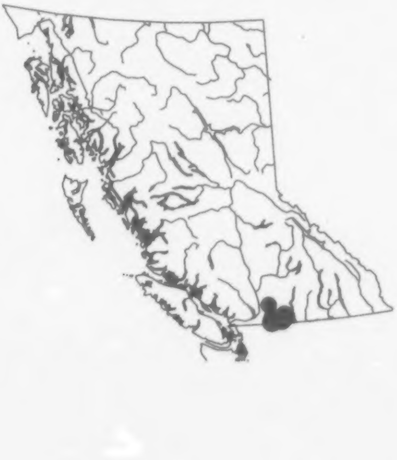


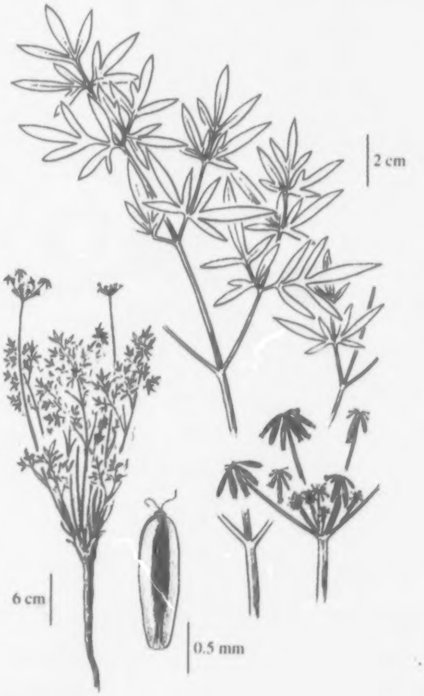
Lomatium brandegeei **(Coult. & Rose) J.F. Macbr.**

Brandegee's lomatium

Habitat/Range: Mesic to dry grasslands, shrublands and open forests in the montane zone (ESSFdc2, ESFmw, ESSFxc, IDFdk2, IDFxh1); rare in SW and SC BC; S to WA.

Global/Provincial Rank: G3? S2S3 Status: Blue



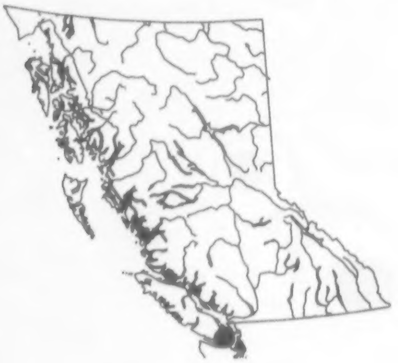


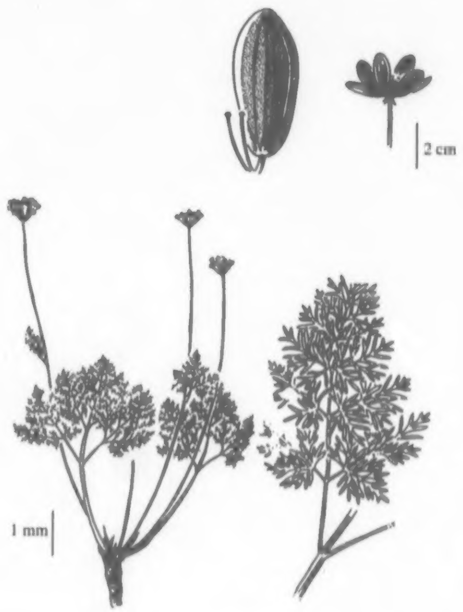
Lomatium dissectum (Nutt.) Mathias & Const. var. *dissectum*

fern-leaved desert-parsley

Habitat/Range: Dry grassy slopes and meadows in the lowland zone (CDFmm); rare on SE Vancouver Island and adjacent islands; S to ID and N CA.

Global/Provincial Rank: G3G4T4 S1 Status: Red



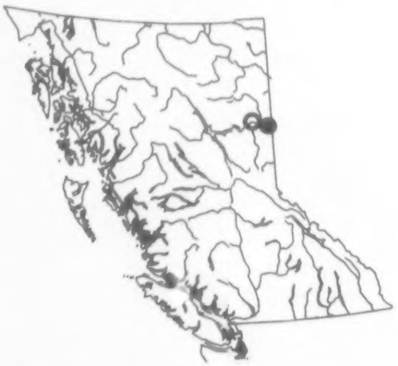


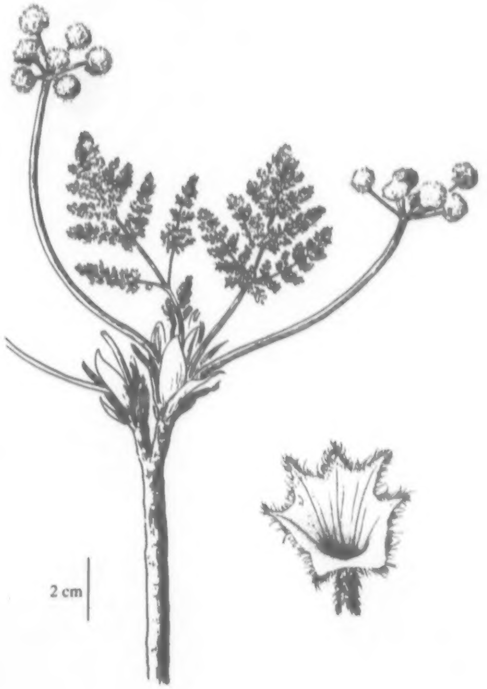
Lomatium foeniculaceum (Nutt.) Coult. & Rose var. *foeniculaceum*

fennel-leaved desert-parsley

Habitat/Range: Dry grassy slopes in the montane zone (BWBSmw1); rare in NE BC, known recently only from Golata Creek and Kistkatinaw River (Peace River area); E to MB and S to TX, AZ and OR.

Global/Provincial Rank: G5T5 S1 Status: Red





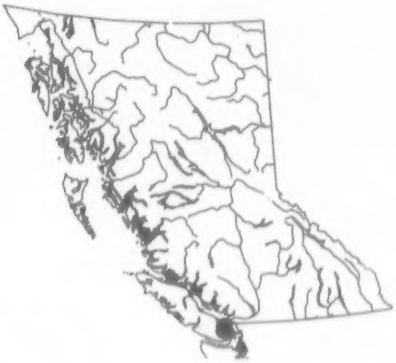
Lomatium grayi **(Coult. & Rose) Coult. & Rose**

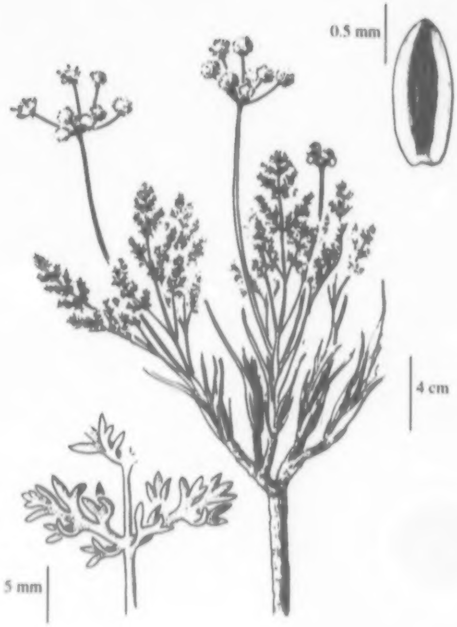
Gray's desert-parsley

Habitat/Range: Dry rocky or open slopes in the lowland zone (CDFmm, CWHxm2); rare in SW BC, known only from the Gulf Islands; S to NM, UT, NV and OR.

Global/Provincial Rank: G5 S1 Status: Red

Notes: For colour illustration see Taylor (1992).



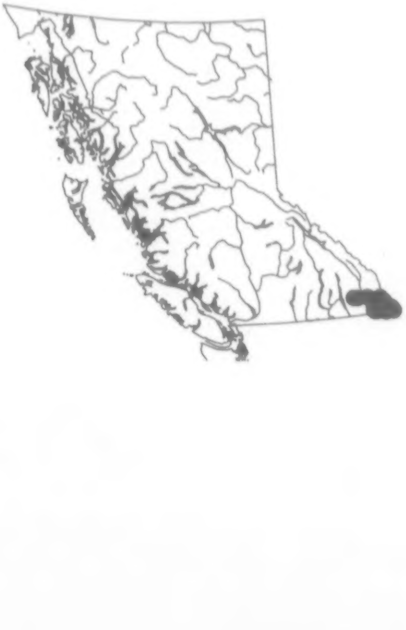


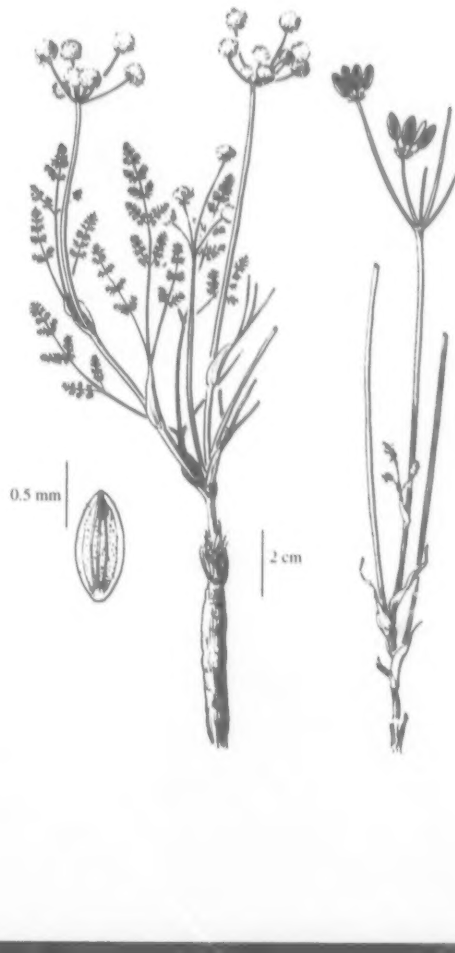
Lomatium sandbergii **(Coult. & Rose) Coult. & Rose**

Sandberg's desert-parsley

Habitat/Range: Dry rocky or open slopes in the upper montane to subalpine zones (ESSFdk, ESSFdkp, ESSFwmp, ICHmk1, IDFdm2, MSdk); rare in extreme SE BC; E to SW AB and S to ID and MT.

Global/Provincial Rank: G4 S2S3 Status: Blue



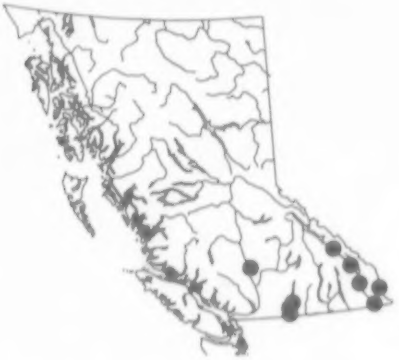


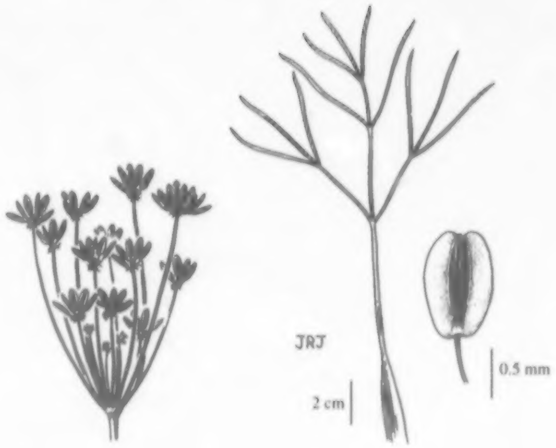
Lomatium triternatum (Pursh) Coult. & Rose ssp. *platycarpum* (Torr.) Cronq.

nine-leaved desert-parsley

Habitat/Range: Dry grasslands, rocky slopes and open forests in the steppe and montane zones (BGxh1, IDFdm2, IDFdk1, IDFxh1, IDFxh2, IDFun, MSdk, PPdh2, PPxh1, PPxh2); rare in SC and SE BC; S to UT, NV and WA.

Global/Provincial Rank: G5T? S2 Status: Red



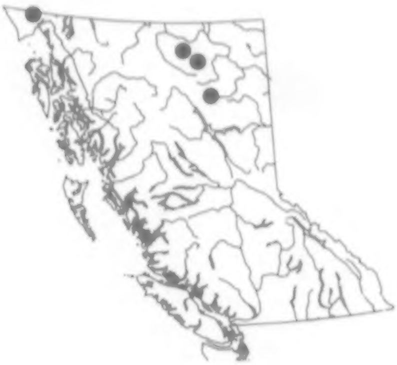


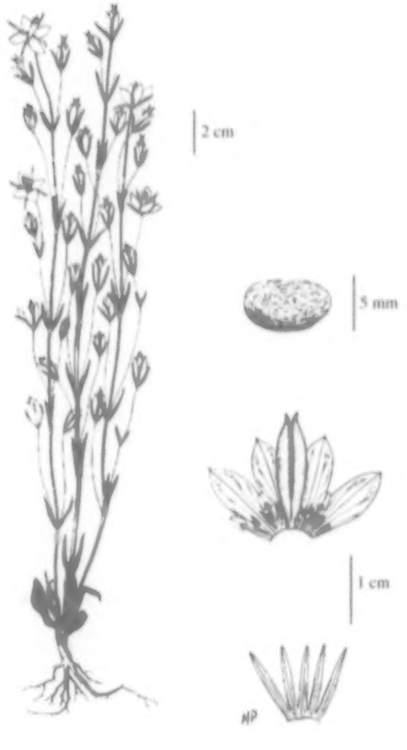
Lomatogonium rotatum (L.) Fries *ex* Fern.

marsh felwort

Habitat/Range: Wet to moist fens, meadows and shorelines in the montane to alpine zones (AT, SWBmk); rare in N BC; circumpolar, N to AK, YT and NT, E to NF and S to ID, WY and NM; Eurasia.

Global/Provincial Rank: G5 S2S3 Status: Blue





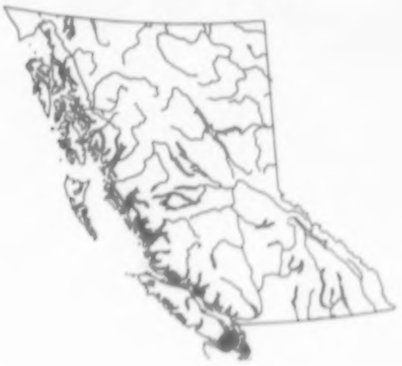
***Lotus formosissimus* Greene**

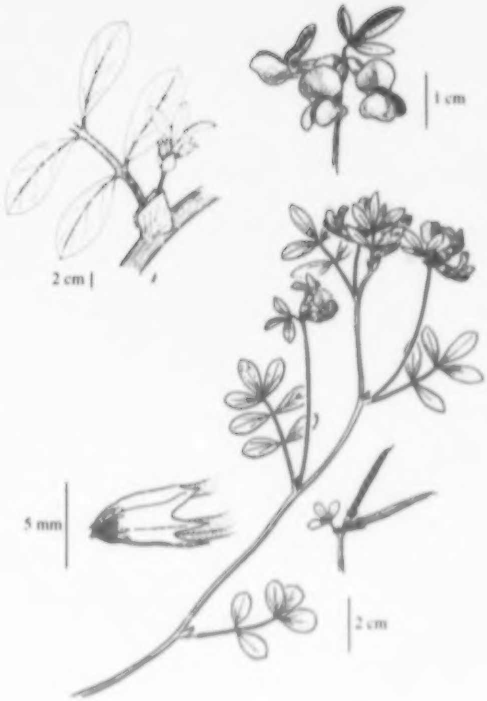
seaside birds-foot trefoil; seaside lotus

Habitat/Range:

Moist open sites in the lowland zone (CDFmm); rare on SE Vancouver Island and adjacent islands; S to C CA.

Global/Provincial Rank: G5 S1 Status: Red





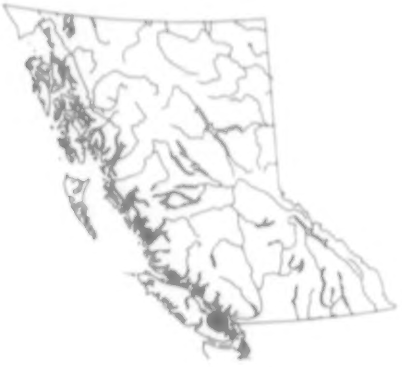
***Lotus pinnatus* Hook.**

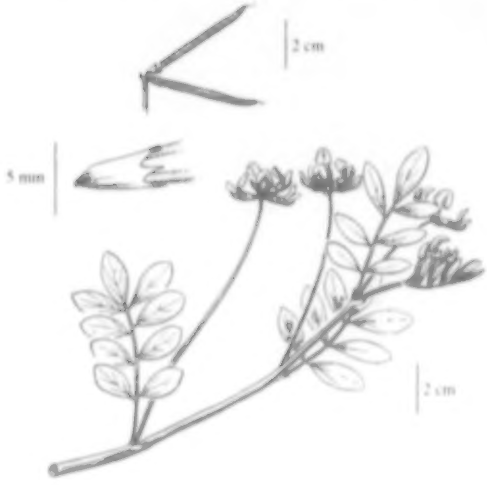
bog birds-foot trefoil

Habitat/Range:

Wet to moist meadows, streambanks and clearings in the lowland zone (CDFmm, CWHmm2); rare on SE Vancouver Island and Gabriola Island; S to ID and CA.

Global/Provincial Rank: G4G5 S1 Status: Red





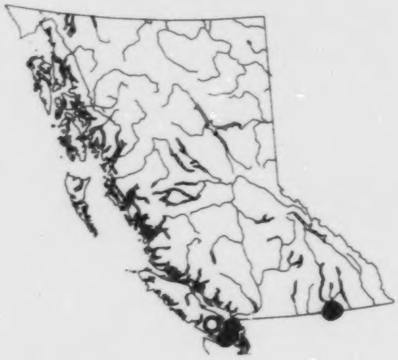
Lotus unifoliolatus* (Hook.) Benth. var. *unifoliolatus (*L. purshianus* [Benth.] Clem. & Clem.)

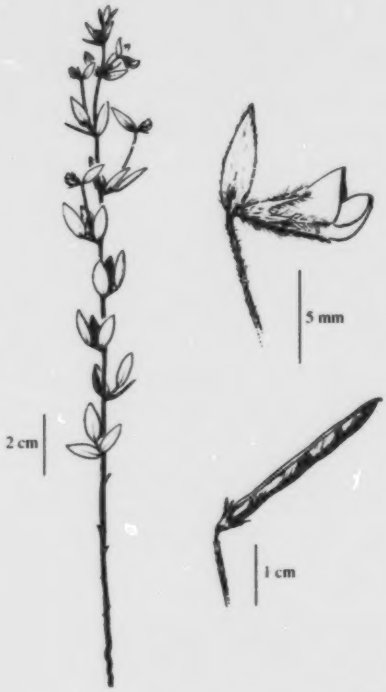
Spanish-clover

Habitat/Range:

Wet to moist meadows, clearings and roadsides in the lowland and montane zones (CDFmm, CWHxm2, ICHdw, ICHxw); rare in SW and SC BC; S to MN, MO, MT, CA and N MX.

Global/Provincial Rank: G5T5 S2S3 Status: Blue





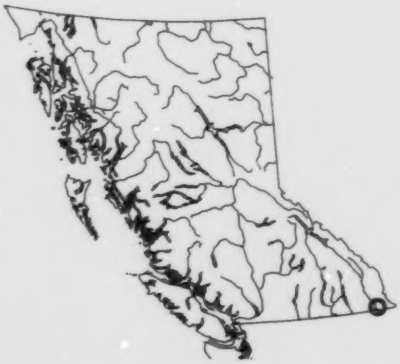
***Lupinus arbustus* Dougl. *ex* Lindl. ssp. *neolaxiflorus* Dunn**

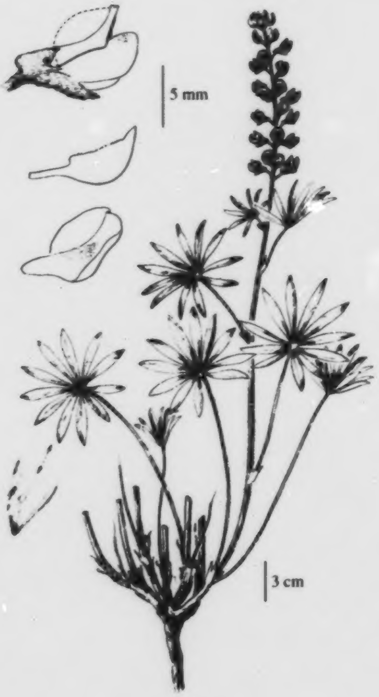
spurred lupine

Habitat/Range: Dry meadows, gravelly ridges, rocky slopes, shrublands and open forests in the lower montane zone (IDFdm2); rare in extreme SE BC; S to MT and CA.

Global/Provincial Rank: G5T? SH Status: Red

Notes: The only BC collection of this species was made in 1944.





F3

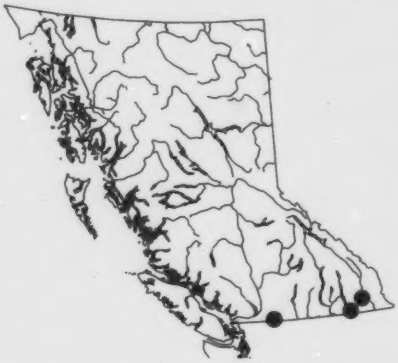
Lupinus arbustus **Dougl. *ex* Lindl. ssp. *pseudoparviflorus*** **(Rydb.) Dunn** (*L. laxiflorus* Dougl. *ex* Lindl. var. *pseudoparviflorus* [Rydb.] C.P. Smith)

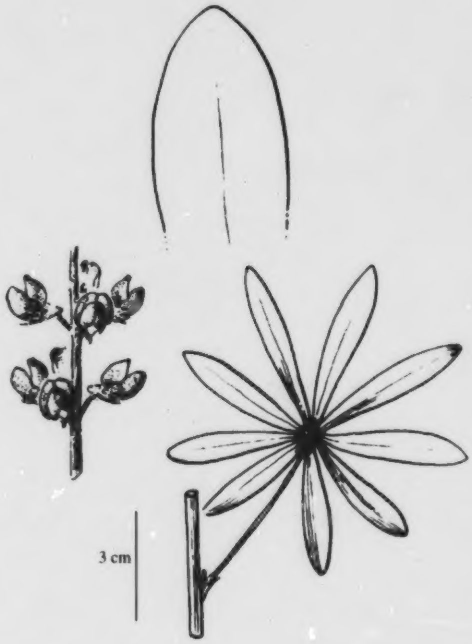
Montana lupine

Habitat/Range:

Moist forests in the montane zone (ESSFmw, ICHxw, IDFdm2); rare in extreme S BC east of the Coast-Cascade Mountains; S to MT and CA.

Global/Provincial Rank: G5T? S1 Status: Red



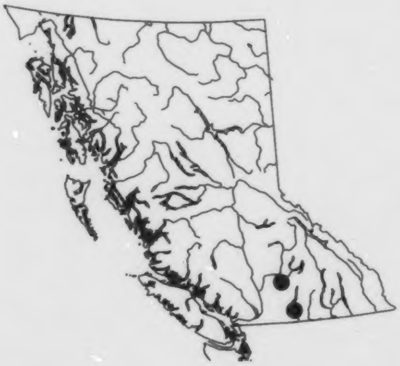


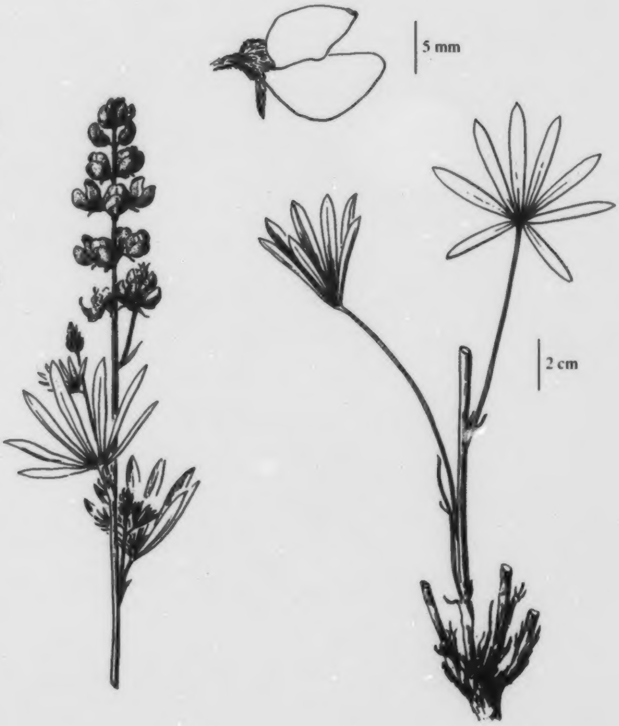
Lupinus argenteus **Pursh var. *laxiflorus*** **(Dougl. *ex* Lindl.) Dorn** (*L. argenteus* var. *tenellus* [Dougl. *ex* D. Don] Dunn)

silvery lupine

Habitat/Range: Dry grasslands, shrublands and forest openings in the steppe and lower montane zones (BGxw1, IDFmw3); rare in SC BC, known only from the S Okanagan Valley and the Kamloops area; E to SK and S to SD, NM and AZ.

Global/Provincial Rank: G5T? S1 Status: Red



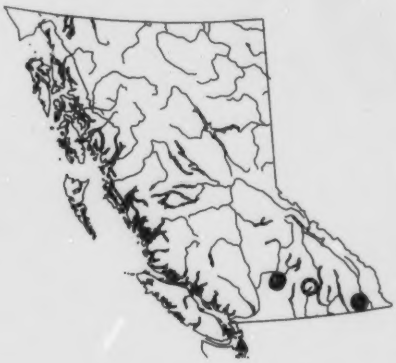


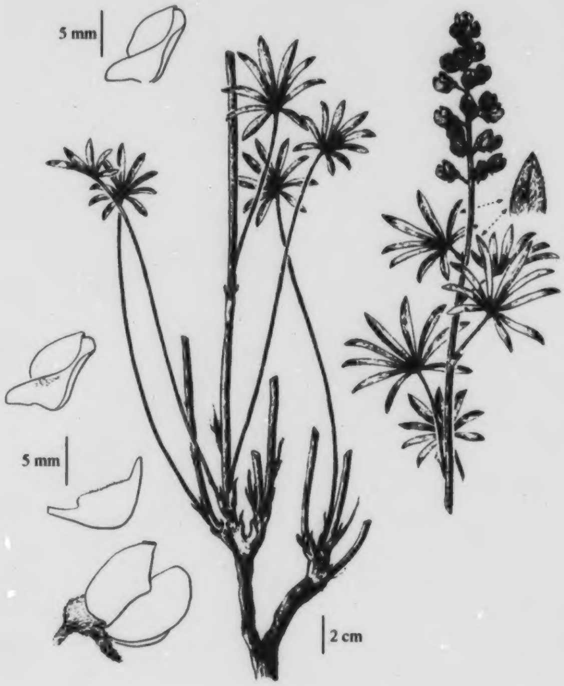
***Lupinus bingenensis* Suksdorf var. *subsaccatus* Suksdorf** (*L. sulphureus* Dougl. ssp. *subsaccatus* [Suksdorf] Phillips)

Suksdorf's lupine

Habitat/Range: Dry sagebrush flats and forest openings in the steppe and lower montane zones (BGxw1, ICHmk1); rare in SC and SE BC, known recently only from the Moyie Lake area and Stump Lake; S to CA.

Global/Provincial Rank: G3G5T? S1 Status: Red





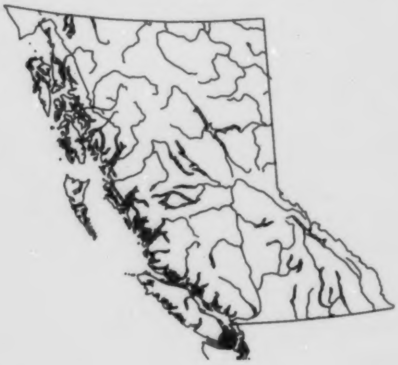
Lupinus densiflorus* Benth. var. *densiflorus (*Lupinus densiflorus* var. *scopulorum* C.P. Smith, *L. microcarpus* Sims var. *scopulorum* C.P. Smith)

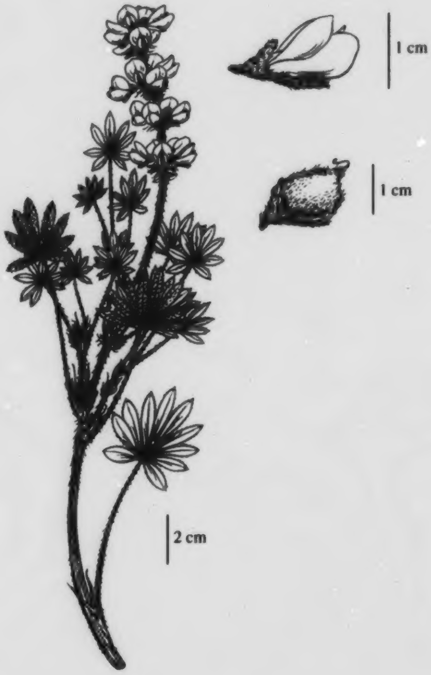
dense-flowered lupine

Habitat/Range: Dry to moist, grassy openings in the lowland zone (CDFmm); rare on SE Vancouver Island, known only from the Victoria area; S to NW WA.

Global/Provincial Rank: G5T4 S1 Status: Red

Notes: For colour illustation see Clark (1976).



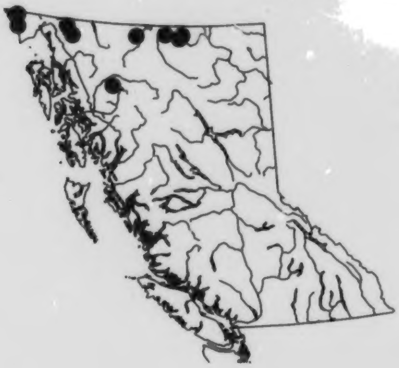


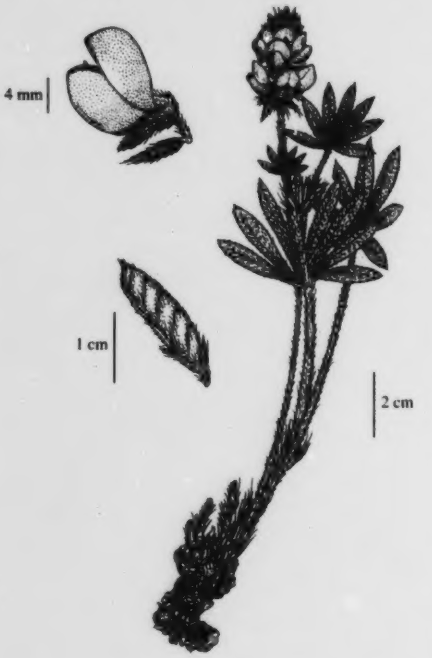
Lupinus kuschei **Eastw.**

Yukon lupine; Kusche's lupine

Habitat/Range: Mesic to dry, sandy, gravelly or rocky openings and open lodgepole pine forests in the montane zone, also alpine pumice fields (Mt. Edziza) (AT, BWBSdk1, BWBSdk2, BWBSvk, SWBmk); rare in N BC; endemic to BC and YT.

Global/Provincial Rank: G3 S2S3 Status: Blue



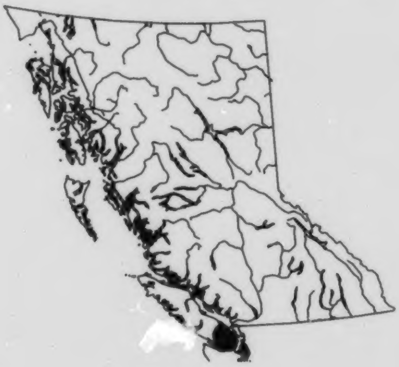


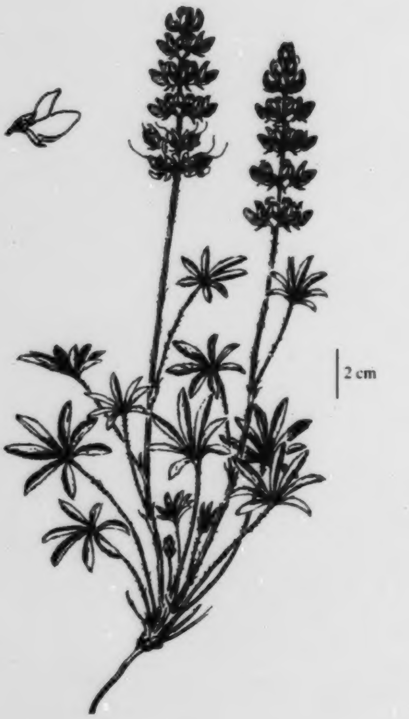
Lupinus lepidus **Dougl.** ***ex*** **Lindl.** (*L. minimus auct. non* Dougl. *ex* Hook.)

prairie lupine

Habitat/Range: Dry gravelly openings and rock outcrops in the lowland zone (CDFmm, CWHmm2, CWHxm1); rare on SE Vancouver Island; S to NW OR.

Global/Provincial Rank: G5 S1 Status: Red





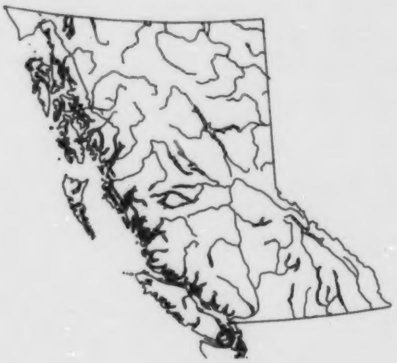
Lupinus oreganus **Heller var.** ***kincaidii*** **C.P. Smith** (*L. sulphureus* Dougl. *ex* Hook. ssp. *kincaidii* [C.P. Smith] Phillips)

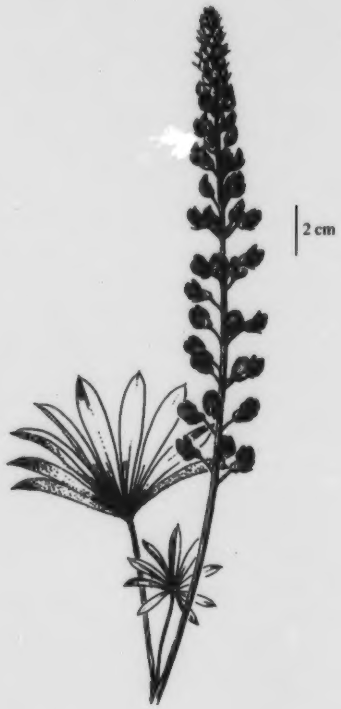
Kincaid's lupine

Habitat/Range: Dry sites in the lowland zone (CDFmm); rare on SE Vancouver Island (Victoria); S to CA.

Global/Provincial Rank: G5T2 SX Status: Red

Notes: The only BC collection of this species was made in 1929.



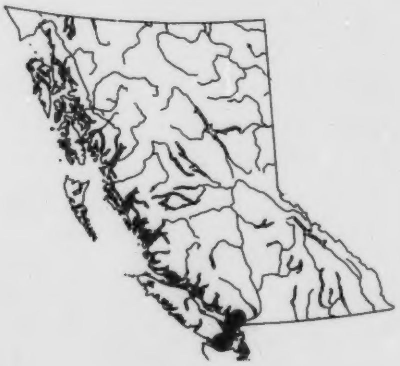


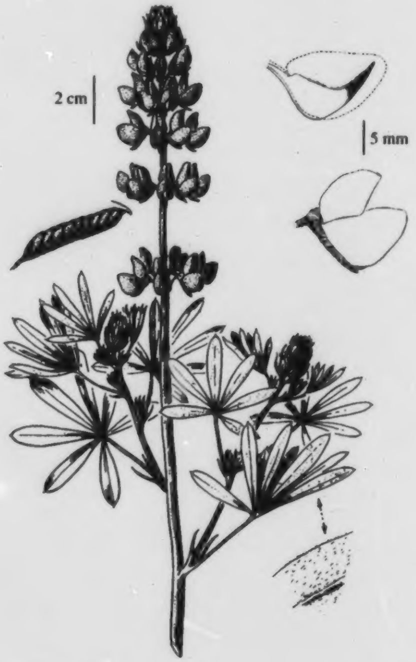
Lupinus rivularis **Dougl.** ***ex*** **Lindl.**

streambank lupine

Habitat/Range: Wet to moist meadows and riverbanks in the lowland zone (CDFmm, CWHdm, CWHxm1); rare on S Vancouver Island and in the lower Fraser Valley; S to N CA.

Global/Provincial Rank: G4G5 S1 Status: Red





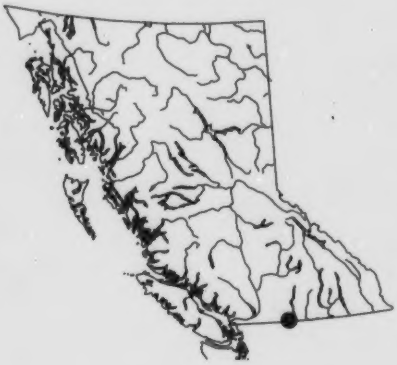
Lupinus wyethii **S. Wats.**

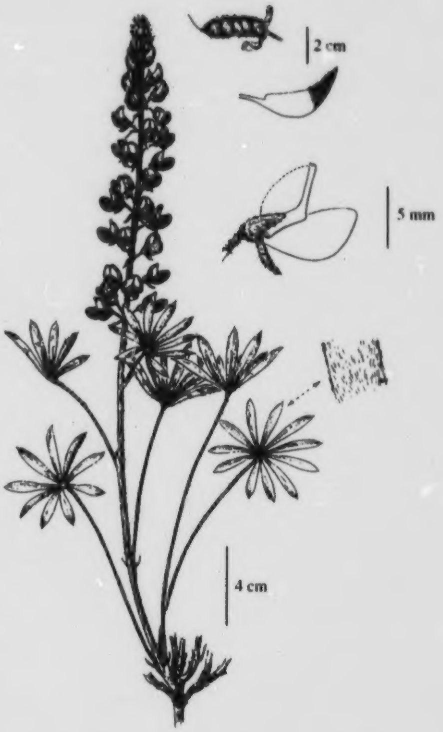
Wyeth's lupine

Habitat/Range: Dry grasslands and shrublands in the steppe and montane zones; rare in SC BC; E to S AB and S to CO and CA.

Global/Provincial Rank: G5 S1 Status: Red

Notes: Although Dunn and Gillett (1966) and Taylor (1974) cite this species from several sites, only one collection was located by the CDC. Even this collection (from Snowy Mountain) may have been mislabelled since its alpine location is far above the normal elevational range of the species. For colour illustration see Taylor (1992).



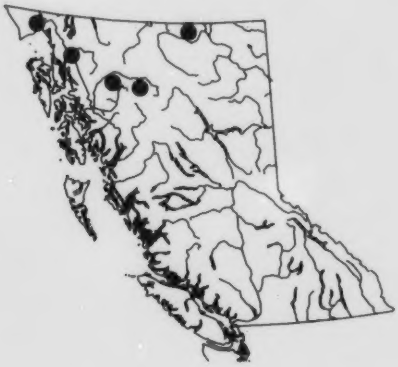


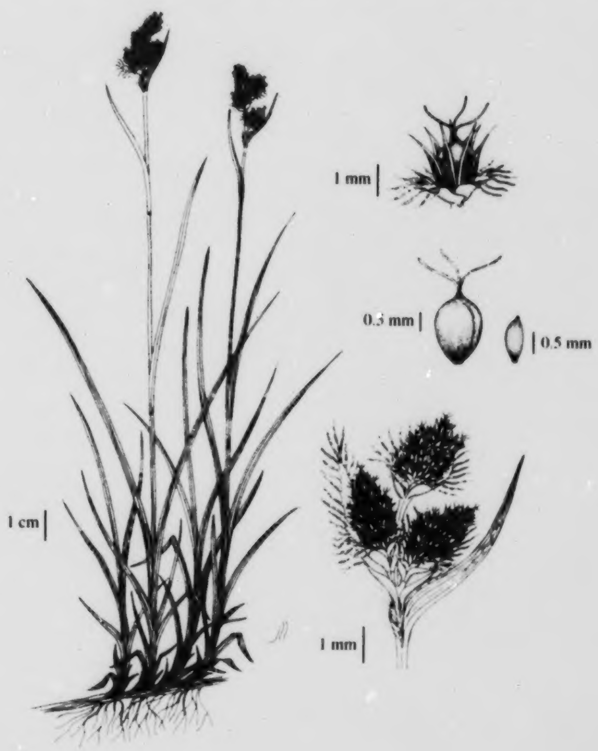
Luzula confusa **Lindeberg**

northern wood-rush

Habitat/Range: Moist rocky cliffs and slopes in the alpine zone (AT); rare in NW BC; circumpolar, N to AK, YT and NT, E to NF, and S to ME and NH; Eurasia.

Global/Provincial Rank: G5 S2S3 Status: Blue



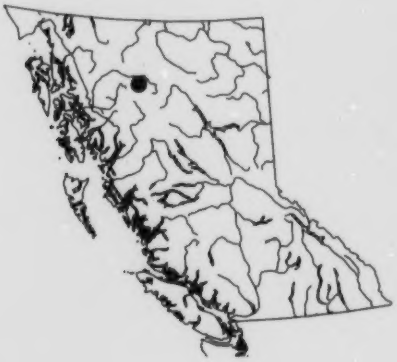


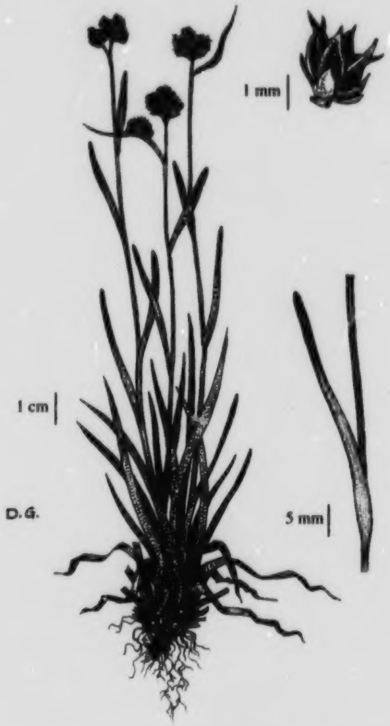
Luzula groenlandica **Böcher**

Greenland wood-rush

Habitat/Range: Wet depressions and snowbed sites in the alpine zone (AT); rare in NW BC, known only from Gladys Lake Ecological Reserve; N to AK and NT, E to NF and Greenland.

Global/Provincial Rank: G4 S2S3 Status: Blue



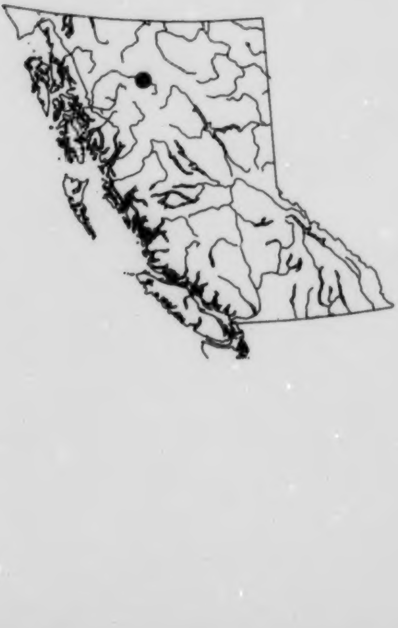


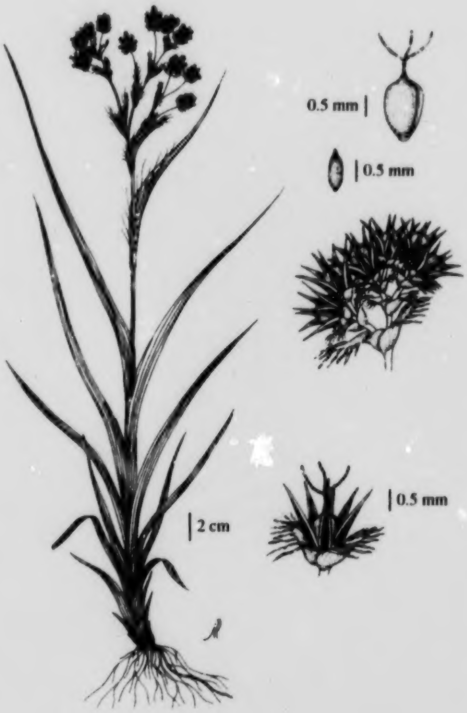
Luzula kjellmaniana **Miyabe & Kudo** (*L. tundricola* Gorodkov *ex* Vassil., *L. multiflora* ssp. *kjellmaniana* [Miyabe & Kudo] Tolm., *L. arctica* ssp. *latifolia* [Buch.] Porsild)

Kjellman's wood-rush

Habitat/Range: Dry meadows and rocky slopes in the alpine zone (AT); rare in N BC; N to YT, NT and AK; N Asia.

Global/Provincial Rank: G? S2S3 Status: Blue



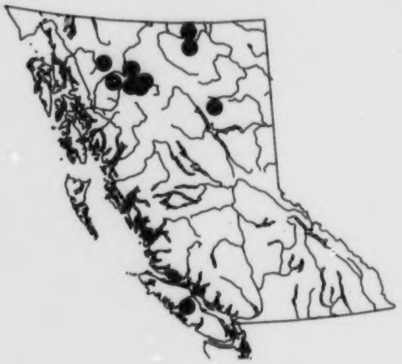


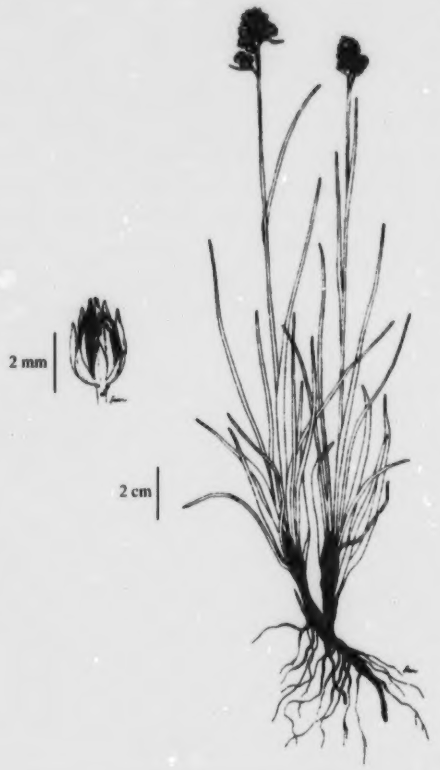
Luzula nivalis **(Laest.) Spreng.** (*L. arctica* Blytt)

Arctic wood-rush

Habitat/Range: Moist meadows and snowbed sites in the subalpine and alpine zones (AT, BWBSdk1, SWBmk, SWBun); rare in N BC and on Vancouver Island; circumpolar, N to AK, YT, and NT and E to NF; Eurasia.

Global/Provincial Rank: G5 S2S3 Status: Blue



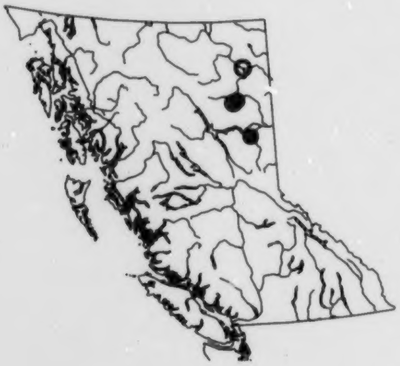


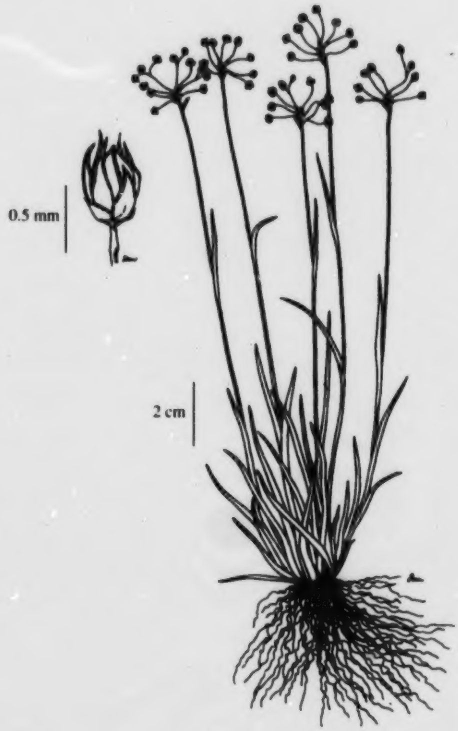
Luzula rufescens **Fischer**

rusty wood-rush

Habitat/Range: Dry to mesic open forests and forest margins in the montane zone (BWBSmw1, BWBSmw2, BWBSwk2); rare in NE BC; amphiberingian, N to AK and YT; E Asia.

Global/Provincial Rank: G5 S2S3 Status: Blue



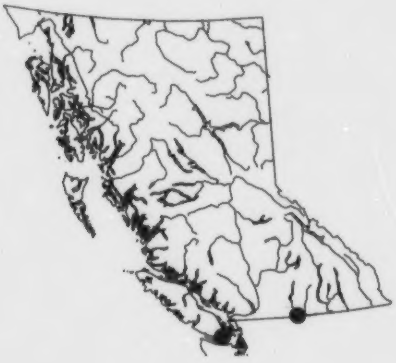


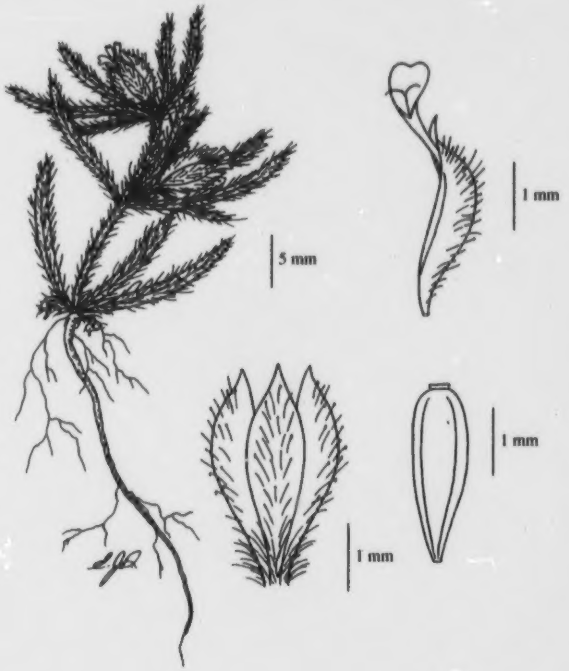
Madia minima **(A. Gray) Keck**

small-headed tarweed

Habitat/Range: Dry mossy rock outcrops, disturbed areas and forest openings in the lowland and steppe zones (BGxh1, CWHxm1); rare in SW BC (Victoria area) and SC BC (Anarchist Mountain); S to CA

Global/Provincial Rank: G4 S1 Status: Red





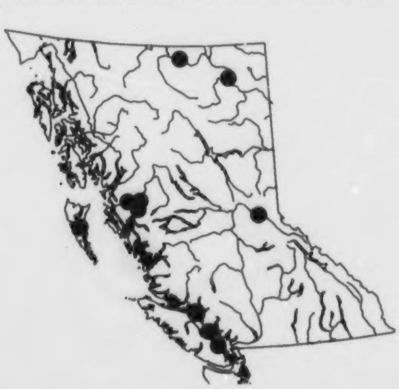
Malaxis brachypoda **(A. Gray) Fern.** (*M. monophyllos* [L.] Swartz ssp. *brachypoda* [A. Gray] A.& D. Löve, *M. monophyllos* var. *brachypoda* [A. Gray] Morris & Eames)

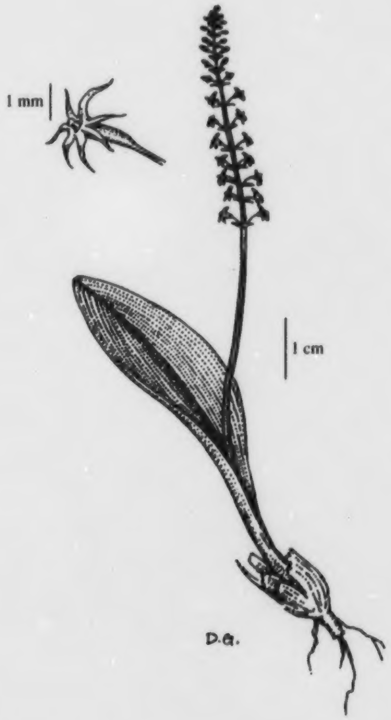
white adder's-mouth orchid; one-leaved malaxis

Habitat/Range: Moist forests, mudflats, fens and streambanks in the lowland and montane zones (BWBSdk2, BWBSmw2, CDFmm, CWHdm, CWHvm, CWHwh1, CWHws1, CWHxm1, SBSvk); rare in coastal and N BC; N to AK, E to NF and S to ME, MA, PA, IN, IL, MN and disjunct in CO and CA; Japan.

Global/Provincial Rank: G4 S2S3 Status: Blue

Notes: For colour illustration see Williams and Williams (1983).





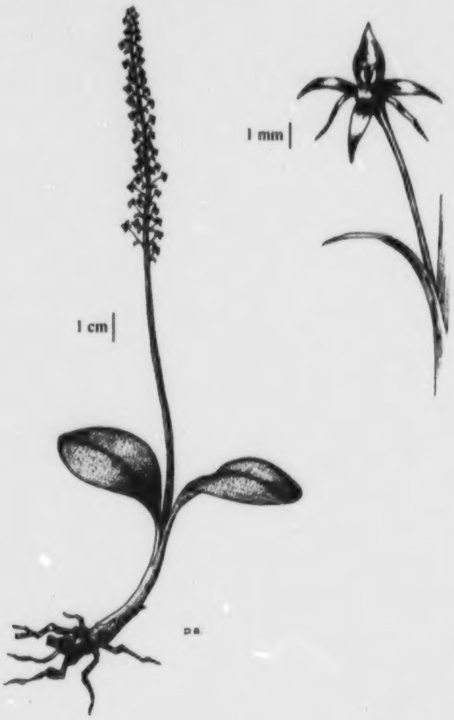
***Malaxis diphyllos* Cham.** (*M. monophyllos* [L.] Swartz var. *diphyllos* [Cham.] Luer)

Aleutian adder's-mouth orchid

Habitat/Range: Moist forests and streambanks in the montane zone (CWHwh1); rare, known only from the Queen Charlotte Islands; N to AK.

Global/Provincial Rank: G3G4 S2S3 Status: Blue

Notes: For colour illustration see Williams and Williams (1983).

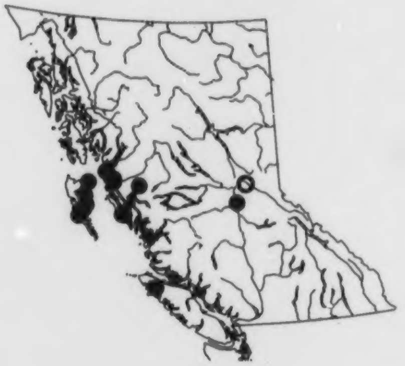


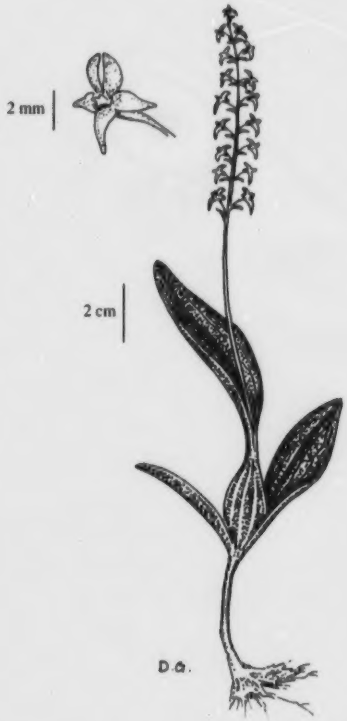
***Malaxis paludosa* (L.) Sw.** (*Hammarbya paludosa* [L.] Kuntze)

bog adder's-mouth orchid

Habitat/Range: Bogs and muskegs in the lowland and montane zones (CWHvh2, CWHvm, CWHwh1, SBSdw1, SBSwk1); rare in WC BC near the coast, and in C BC; circumboreal, N to AK and NT, E to ON and S to MN; Eurasia.

Global/Provincial Rank: G4 S2S3 Status: Blue





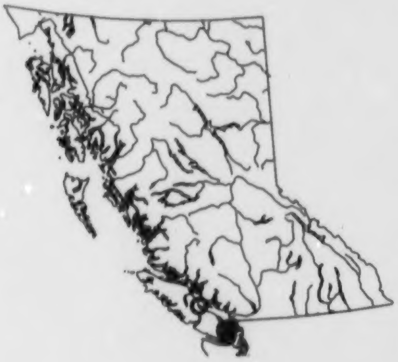
Marah oreganus (T. & G.) Howell

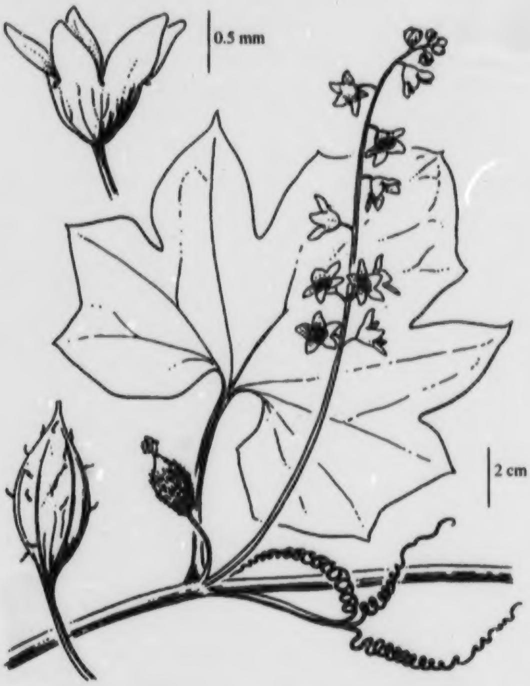
manroot; bigroot

Habitat/Range: Moist fields, meadows and slopes in the lowland zone (CDFmm, CWHxm1, CWHxm2); rare in SW BC, known only from Vancouver Island and the Gulf Islands; S to N CA.

Global/Provincial Rank: G5 S2S3 Status: Blue

Notes: For colour illustration see Clark (1976).



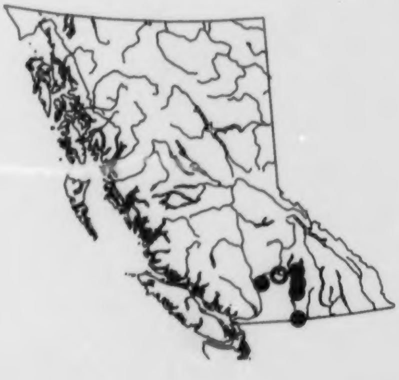


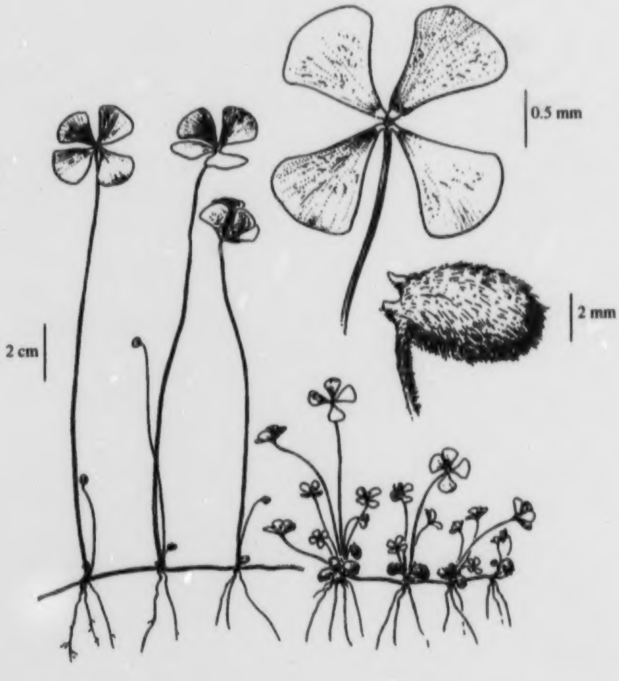
Marsilea vestita Hook. & Grev.

hairy water-clover

Habitat/Range: Inundated lake margins in the steppe and montane zones (BGxh1, BGxh2, IDFmw2, IDFxh1a); rare in SC BC; E to SK and S to FL, LA, TX, NM, AZ, CA and MX.

Global/Provincial Rank: G5 S1 Status: Red



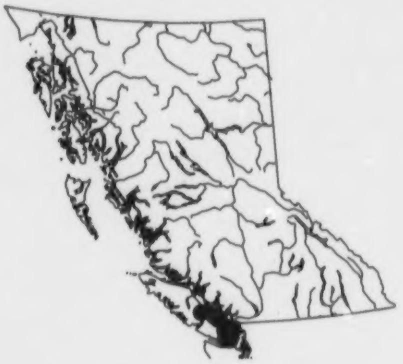


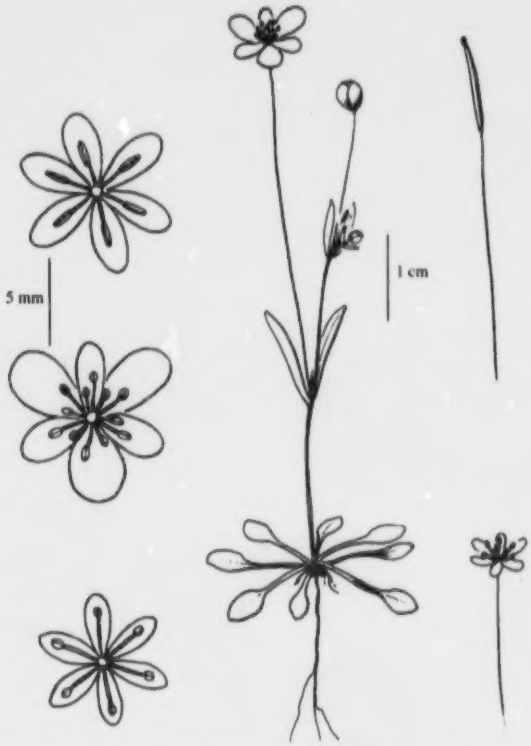
Meconella oregana **Nutt.**

white meconella

Habitat/Range: Vernally moist rocky or grassy slopes in the lowland zone (CDFmm); rare on SE Vancouver Island and the Gulf Islands; S to CA.

Global/Provincial Rank: G2 S2 Status: Red



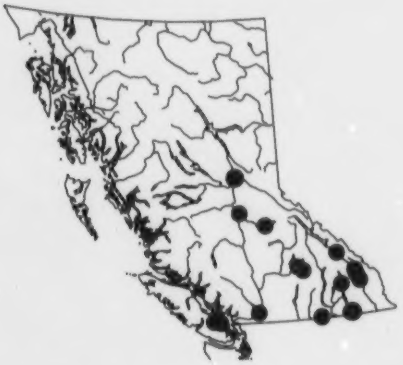


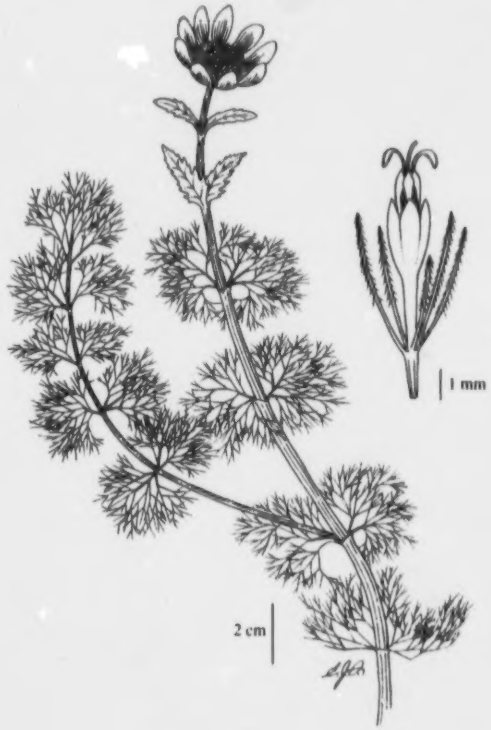
Megalodonta beckii **(Torr. *ex* Spreng.) Greene var. *beckii*** (*Bidens beckii* Torr. *ex* Spreng.)

water marigold

Habitat/Range: Lakeshores in the lowland and montane zones (CDFmm, ICHdw, ICHmw2, ICHxw, IDFdm2, IDFun, SBSmk1); rare on S Vancouver Island, EC, SC and SE BC; also occurs in WA and OR, native in E North America, native status uncertain for BC.

Global/Provincial Rank: G4G5T4 S3 Status: Blue



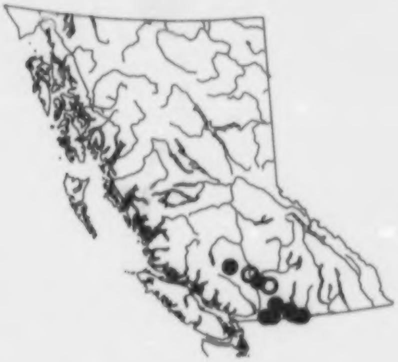


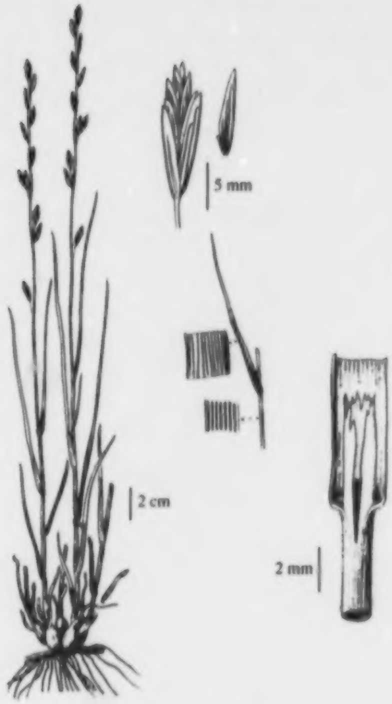
Melica bulbosa **Geyer *ex* Porter & Coult. var. *bulbosa***

oniongrass

Habitat/Range: Mesic to dry meadows, grassy slopes and shrublands in the steppe to subalpine zones (BGxw1, ESSFdv, ESSFmw, ESSFxc, IDFdm1, IDFxh1, MSxk, PPxh2); rare in S BC in and east of the Coast-Cascade Mountains; disjunct E to SK and S to TX, CO, UT, NV and CA.

Global/Provincial Rank: G5T5 S2 Status: Red



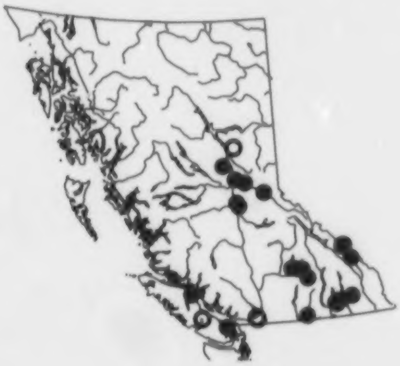


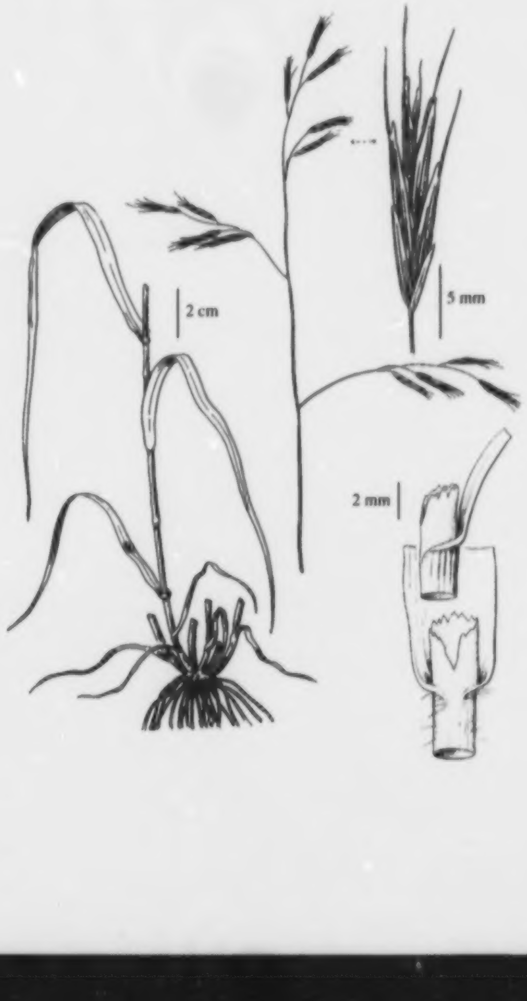
Melica smithii **(Porter) Vasey**

Smith's melic

Habitat/Range: Moist forests in the lowland and montane zones (CDFmm, CWHdm, CWHxm1, CWHxm2, ESSFdk, ICHdw, ICHmw2, ICHmw3, ICHwk3, IDFdm1, IDFmw2, IDFxh1, SBSdk, SBSdw1, SBSmk1, SBSwk1, SBSwk2); rare in S and EC BC; E to SW AB and disjunctly to E to ON and PQ and S to MI, WI, SD, MT, ID and OR.

Global/Provincial Rank: G4 S2S3 Status: Blue



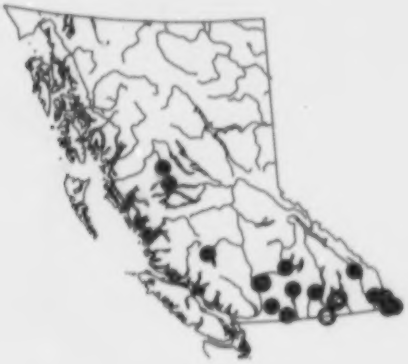


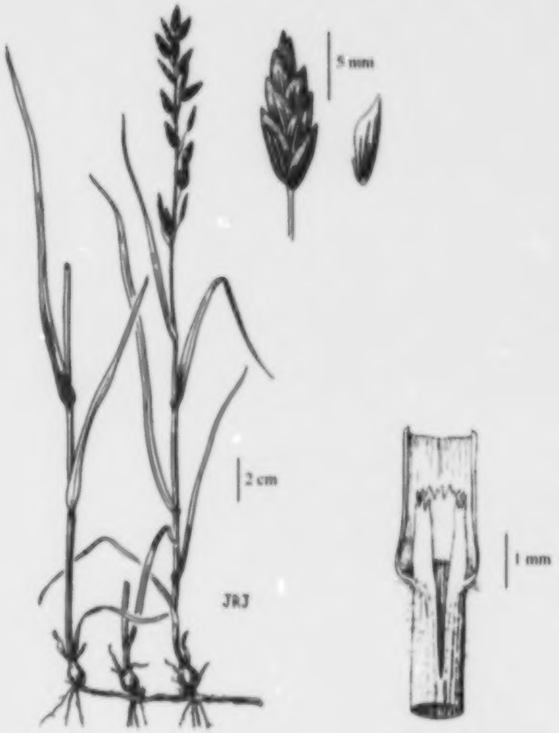
***Melica spectabilis* Scribn.**

purple onlongrass

Habitat/Range: Wet to dry meadows and open forests in the montane and subalpine zones (BGxh2, ESSFdcp2, ESSFdk, ESSFdkp, ESSFmw, ESSFwc4, ESSFxc, ICHdw, IDFmk1, IDFdk1, IDFdw, IDFun, MSdk, SBSmc2); rare in WC BC and S BC east of the Coast-Cascade Mountains; E to SW AB and S to CO, UT, NV and N CA.

Global/Provincial Rank: G5 S2S3 Status: Blue



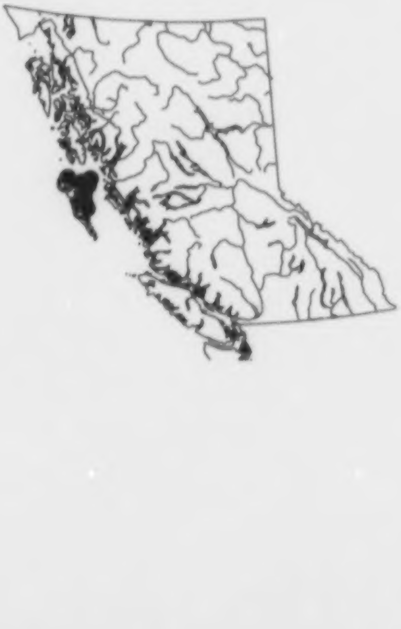


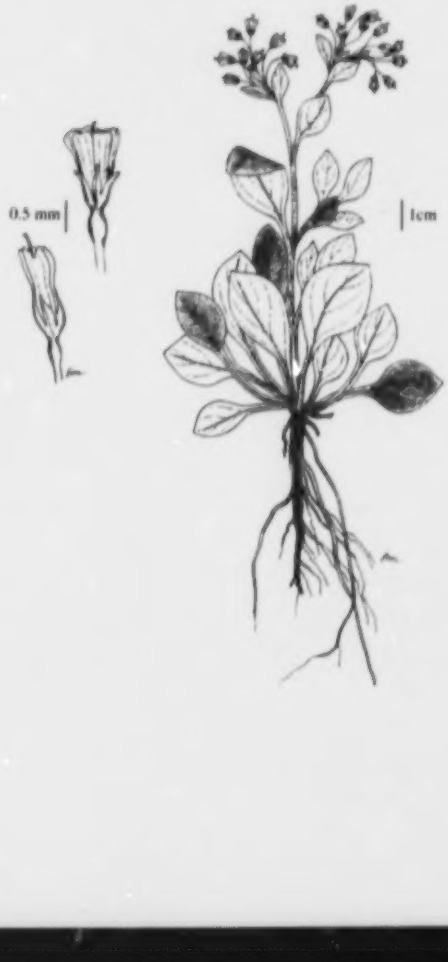
***Mertensia maritima* (L.) S.F. Gray**

sea bluebells; sea-mertensia, sea-lungwort; oysterleaf

Habitat/Range: Moist sandy or gravelly beaches in the lowland zone (CWHvh2, CWHwh1); rare in W BC, known only from the Queen Charlotte Islands; circumpolar, N to AK, YT and NT and E to NF, N Europe, E Asia.

Global/Provincial Rank: G5 S2S3 Status: Blue





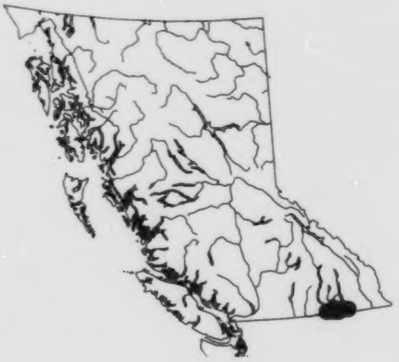
Mertensia paniculata (W. Ait.) G. Don var. *borealis* (J.F. Macbr.) L.O. Williams

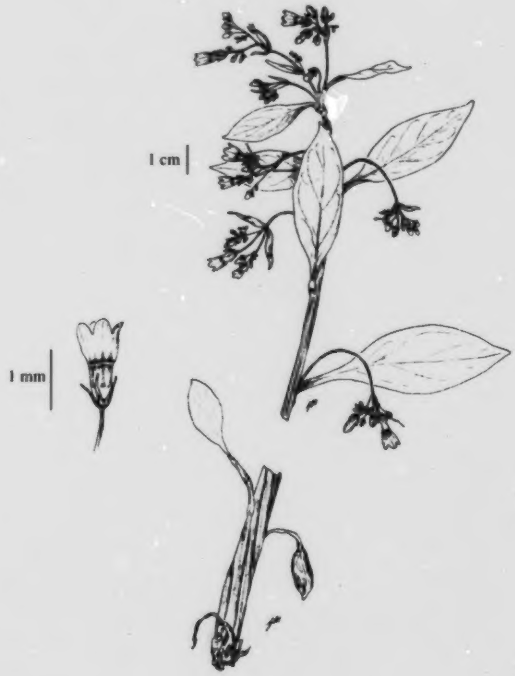
tall bluebells; panicled mertensia

Habitat/Range: Moist to mesic sites in the montane to subalpine zones (ESSFwc4, ICHdw, ICHmw2, ICHxw); rare in SE BC; S to MT, ID and OR.

Global/Provincial Rank: G5T? S2S3 Status: Blue

Notes: For colour illustration see Clark (1976).



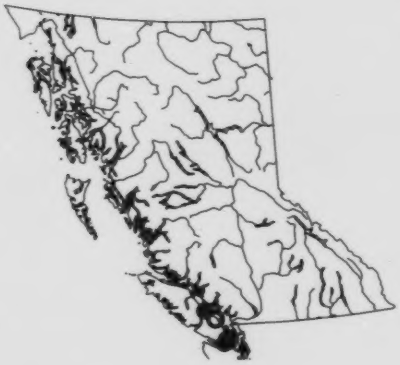


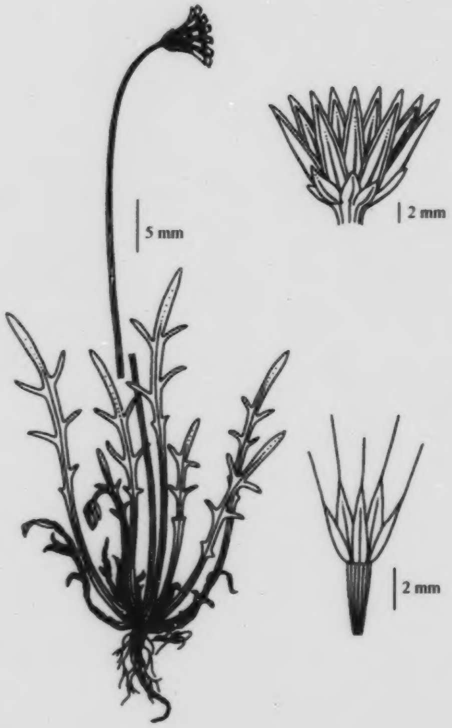
Microseris bigelovii (A. Gray) Schultz-Bip.

coast microseris

Habitat/Range: Moist, open, grassy coastal bluffs in the lowland zone (CDFmm); rare in SW BC, known only from SE Vancouver Island and Hornby Island; S to CA.

Global/Provincial Rank: G4 S1 Status: Red



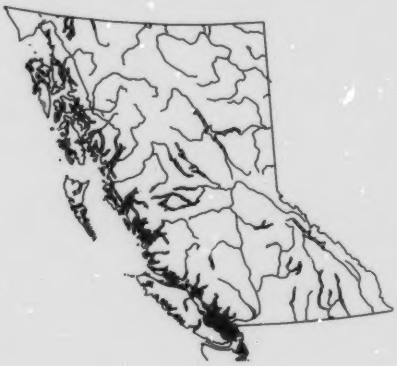


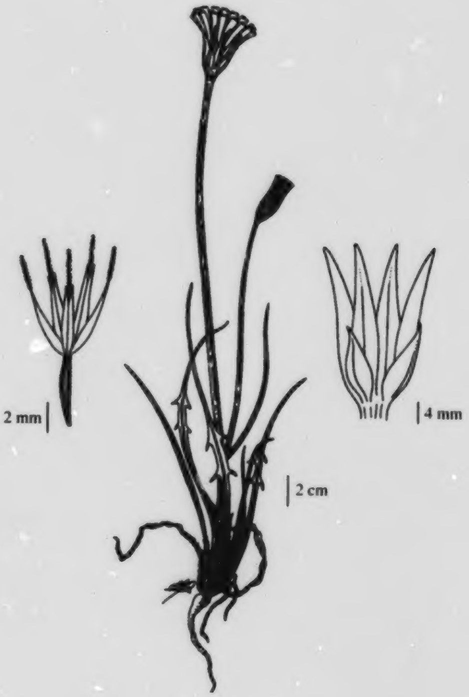
Microseris lindleyi **(DC.) A. Gray** (*M. linearifolia* [Nutt.] Schutz-Bip., *Uropappus lindleyi* [DC.] Nutt.)

Lindley's microseris

Habitat/Range: Mesic, grassy, rocky bluffs in the lowland zone (CDFmm); rare in SW BC, known only from SE Vancouver Island and in the Gulf Islands; S to ID, AZ, NM and CA.

Global/Provincial Rank: G5 S1 Status: Red



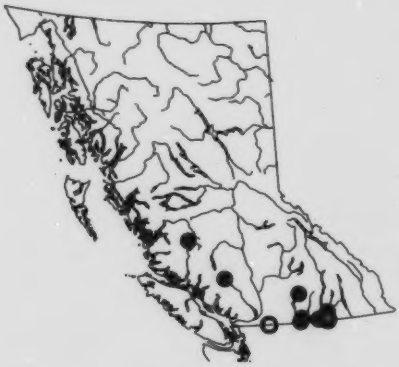


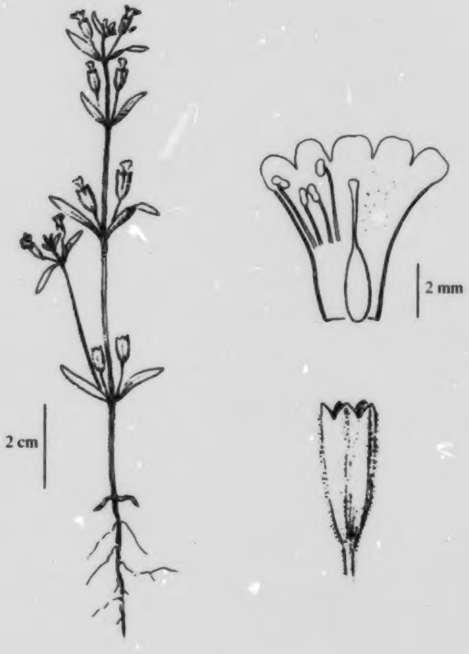
Mimulus breweri **(Greene) Coville**

Brewer's monkey-flower

Habitat/Range: Moist to mesic open areas near seepage or streams and rocky slopes in the montane zone (ESSFdcp1, ESSFwc4, ESSFxv1, ICHdw, ICHmk1, ICHmw2, ICHxw, IDFdm1, IDFww); rare in S BC; S to CO, UT, NV and CA.

Global/Provincial Rank: G5 S2S3 Status: Blue



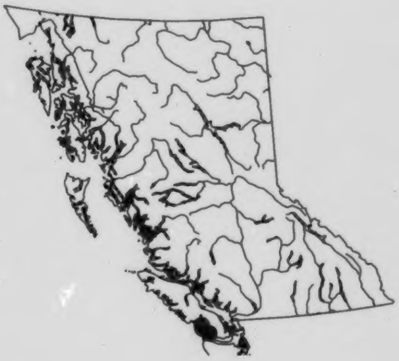


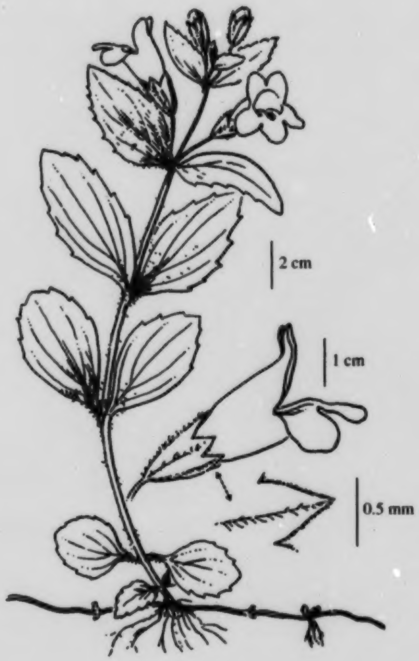
Mimulus dentatus **Nutt. *ex* Benth.**

tooth-leaved monkey-flower

Habitat/Range: Moist forests and streambanks in the lowland and lower montane zones (CWHvh1); rare on S Vancouver Island; S to N CA.

Global/Provincial Rank: G5 S1 Status: Red





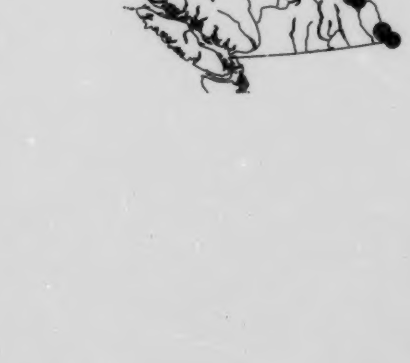
Minuartia austromontana **Wolf & Packer**

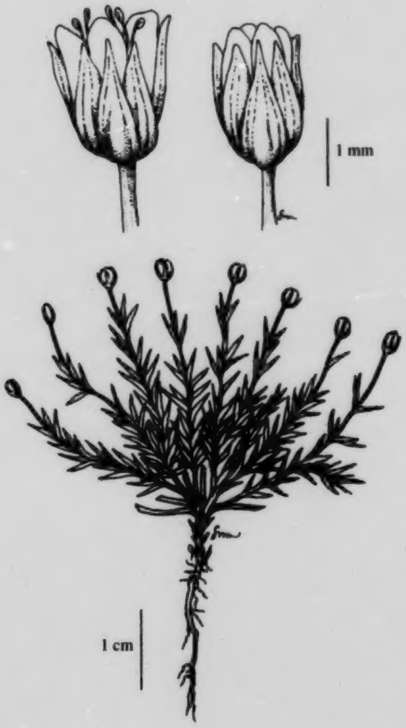
Rocky Mountain sandwort

Habitat/Range:

Dry, calcareous rocky slopes and scree in the alpine zone (AT); rare in E BC; E to AB and S to WY, UT and NE OR.

Global/Provincial Rank: G4 S2S3 Status: Blue



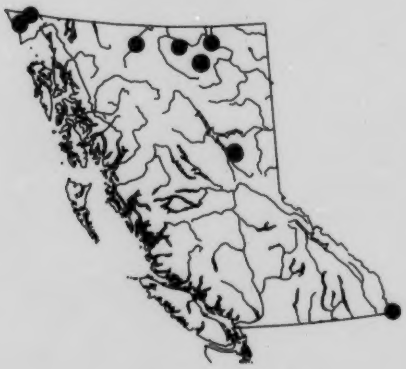


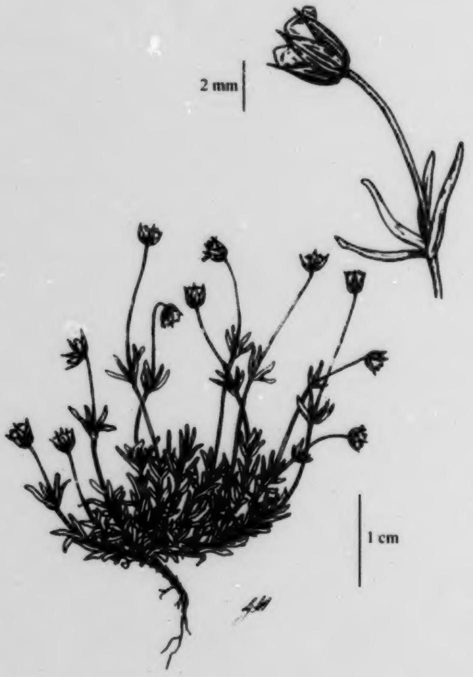
***Minuartia elegans* (Cham. & Schlecht.) Schischk.** (*Arenaria elegans* Cham. & Schlecht., *A. rossii* R. Br. var. *columbiana* [Raup] Maguire, *A. rossii* ssp. *elegans* [Cham. & Schlecht.] Maguire, *Minuartia rossii* [R. Br.] Graebn. var. *orthotrichoides* [Schischk.] Hult.)

northern sandwort

Habitat/Range: Moist meadows and slopes in the alpine zone (AT); rare in N and E BC; amphiberingian, N to AK, YT and NT and E to WC AB; E Asia.

Global/Provincial Rank: G4G5 S2S3 Status: Blue



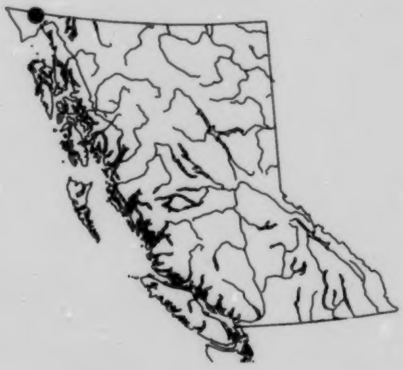


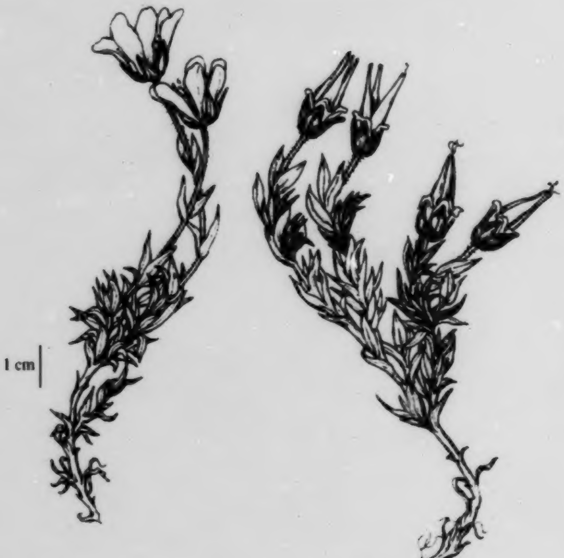
***Minuartia macrocarpa* (Pursh) Ostenf.** (*Arenaria macrocarpa* Pursh)

large-fruited sandwort

Habitat/Range: Dry rocky slopes in the alpine zone (AT); rare in NW BC, known only from Mount Mansfield; amphiberingian, N to AK, YT and NT; E Asia.

Global/Provincial Rank: G4 S2S3 Status: Blue



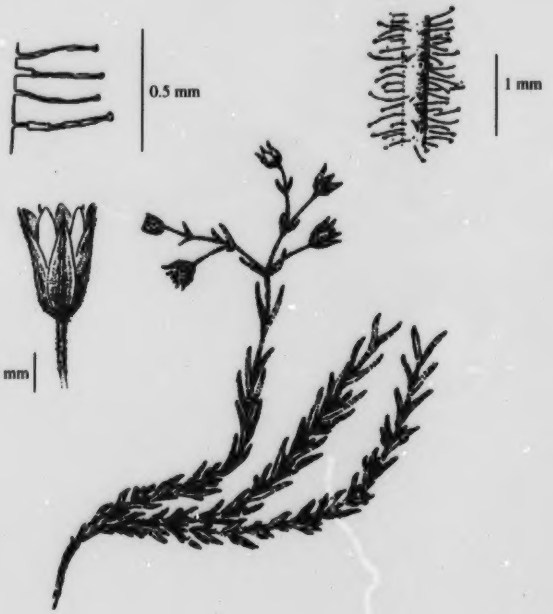


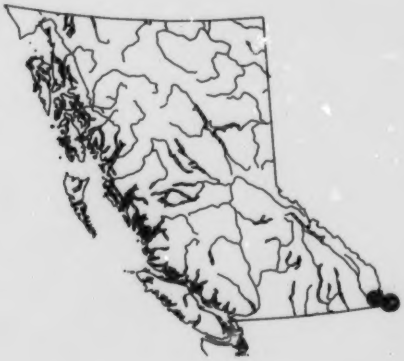
Minuartia nuttallii **(Pax) Briq. ssp.** ***nuttallii*** (*Arenaria nuttallii* Pax)

Nuttall's sandwort

Habitat/Range: Dry, rocky slopes in the alpine zone (AT); rare in SE BC; E to AB and S to WY, UT and OR.

Global/Provincial Rank: G5T4T5 S2S3 Status: Blue



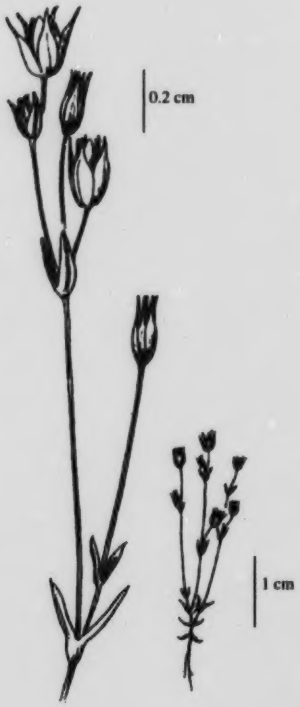


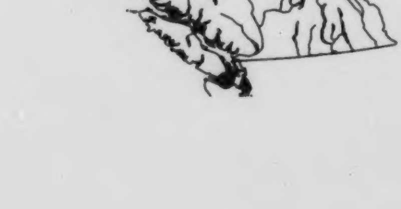
Minuartia pusilla **(S. Wats.) Mattf.** (*Arenaria pusilla* S. Wats.)

dwarf sandwort

Habitat/Range: Dry rock cliffs in the lowland zone (CDFmm); rare in SW BC, known only from Rocky Point, S Vancouver Island; S to ID, AZ and NW CA.

Global/Provincial Rank: G5 S1 Status: Red



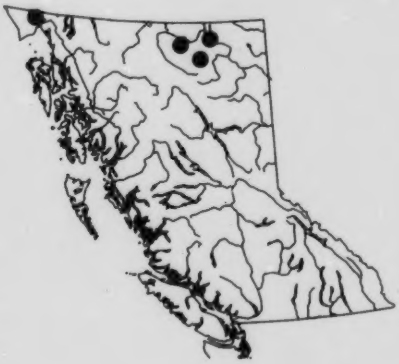


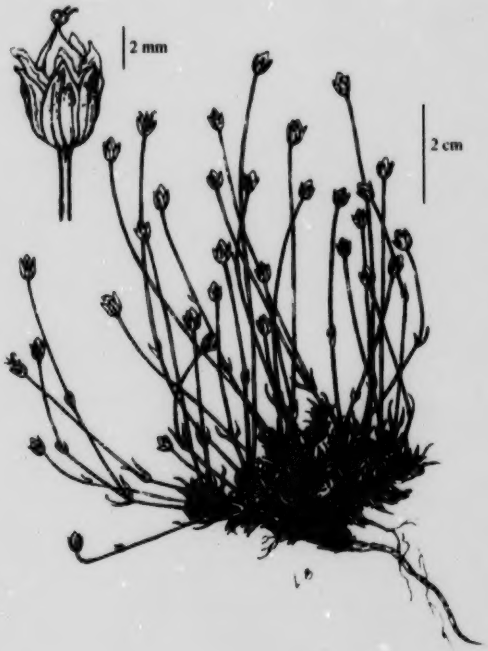
Minuartia stricta **(Sw.) Hiern**

rock sandwort

Habitat/Range: Mesic gravel floodplains, rocky slopes and meadows in the subalpine and alpine zones (AT, SWBdk, SWBmk); rare in N BC; circumpolar, N to AK, YT and NT; Eurasia.

Global/Provincial Rank: G5 S2S3 Status: Blue



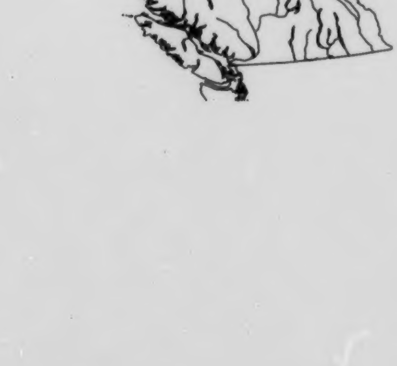


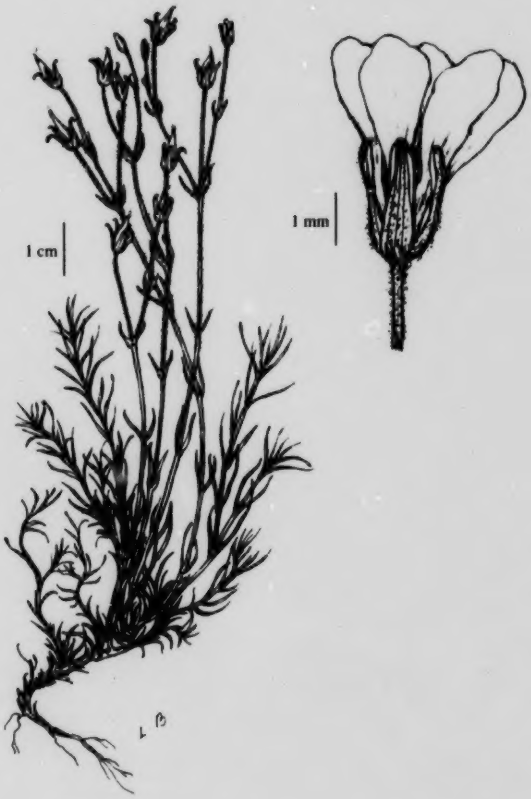
Minuartia yukonensis **Hult.** (*Arenaria laricifolia auct. non* B.P. Robbins)

Yukon sandwort

Habitat/Range: Dry rocky slopes and meadows in the alpine zone (AT); rare in N BC, known only from Mount Mansfield and Toad River; amphiberingian, N to AK, YT and NT; E Asia.

Global/Provincial Rank: G3G4 S2S3 Status: Blue



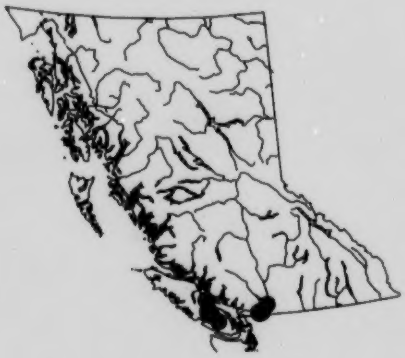


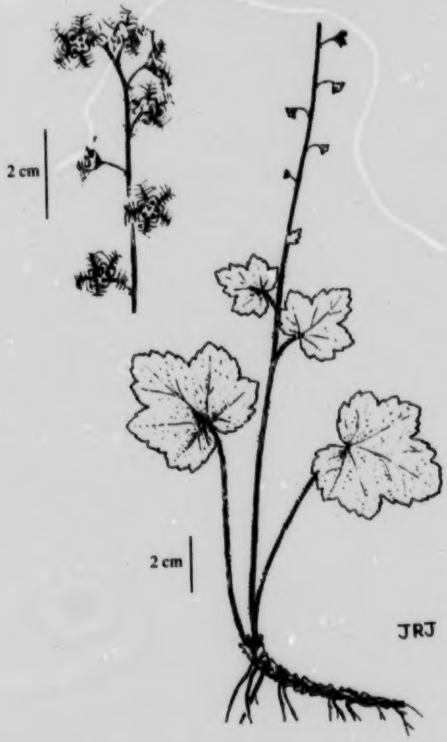
Mitella caulescens **Nutt.**

leafy mitrewort

Habitat/Range: Wet to moist meadows and woodlands in the lowland and montane zones (CWHds1, CWHms1, CWHxm1, CWHxm2, MHmm1); rare on S Vancouver Island and in the lower Fraser Valley; S to ID, MT, ID and CA.

Global/Provincial Rank: G5 S2S3 Status: Blue



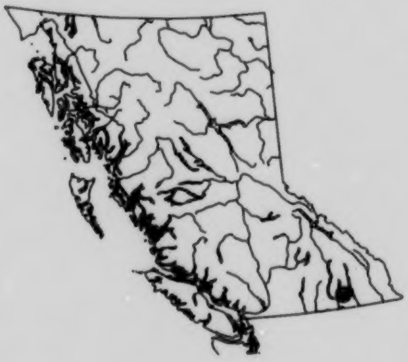


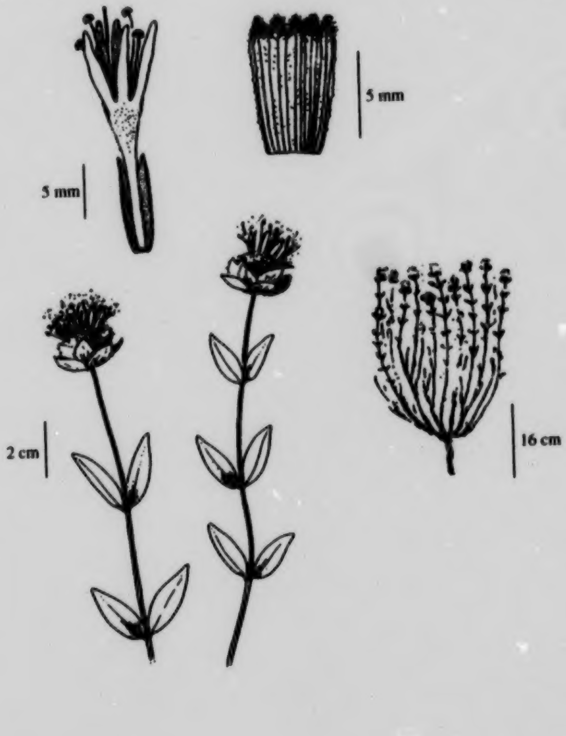
Monardella odoratissima **Benth. ssp.** ***odoratissima***

monardella

Habitat/Range: Dry shrublands in the montane zone (ICHdw); rare in SE BC, known only from Nelson; S to CA, NM and CO.

Global/Provincial Rank: G4G5T? S1 Status: Red



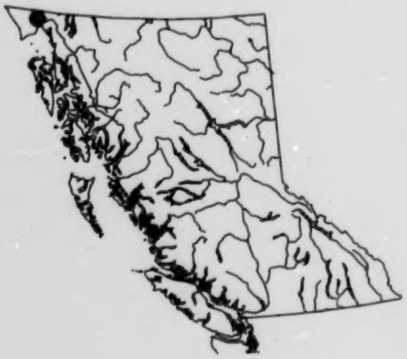


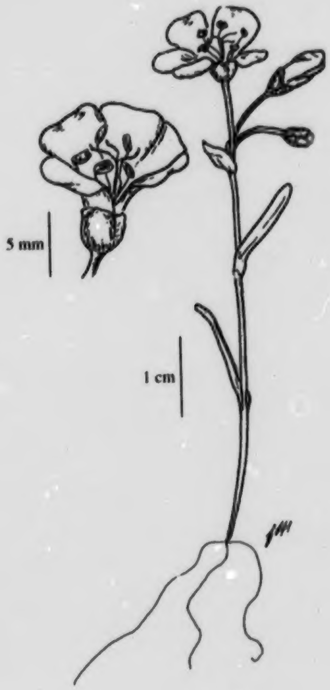
***Montia bostockii* (Porsild) Welsh** (*Claytonia bostockii* Porsild)

Bostock's montia

Habitat/Range: Moist meadows in the subalpine and alpine zones (AT); rare in NW BC, known only from the Haines Road; N to E AK and SW YT.

Global/Provincial Rank: G3 S2S3 Status: Blue



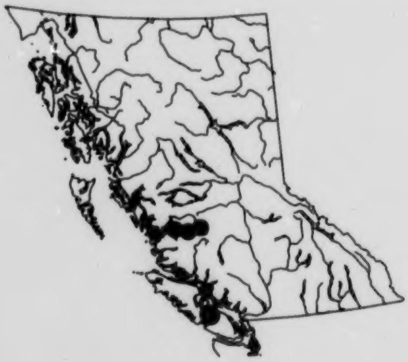


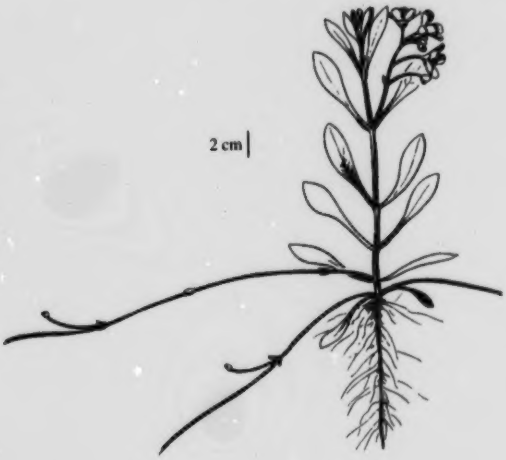
***Montia chamissoi* (Ledeb. *ex* Spreng.) Greene** (*Claytonia chamissoi* Ledeb. *ex* Spreng.)

Chamisso's montia

Habitat/Range: Bogs, marshes and streambanks in the lowland and montane zones (CWHds2, CWHxm1, CWHxm2, SBPSxc); rare in coastal and WC BC; N to AK, E to MB and S to NM and CA, disjunct in IA.

Global/Provincial Rank: G5 S2S3 Status: Blue





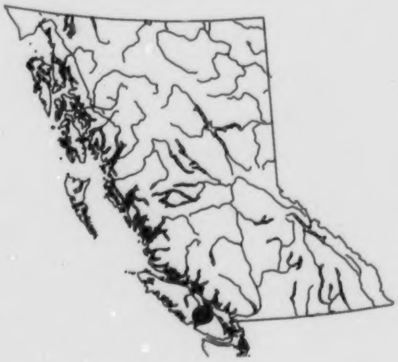
Montia diffusa **(Nutt.) Greene**

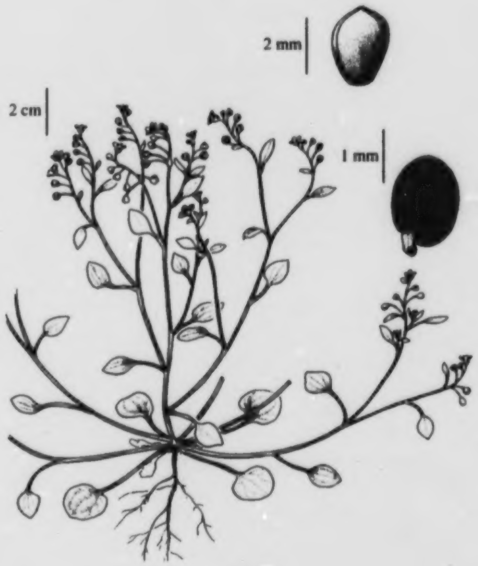
branching montia

Habitat/Range: Moist forests in the lowland and lower montane zones (CWHxm2); rare on S Vancouver Island, known recently only from Errington, Vancouver Island; S to CA.

Global/Provincial Rank: G4 S1 Status: Red

Notes: This species was collected for the first time in 85 years at Errington, Vancouver Island by J. Fenneman in 2000.



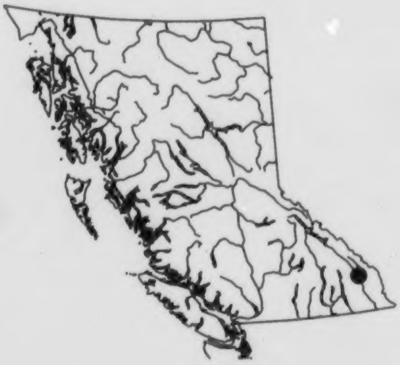


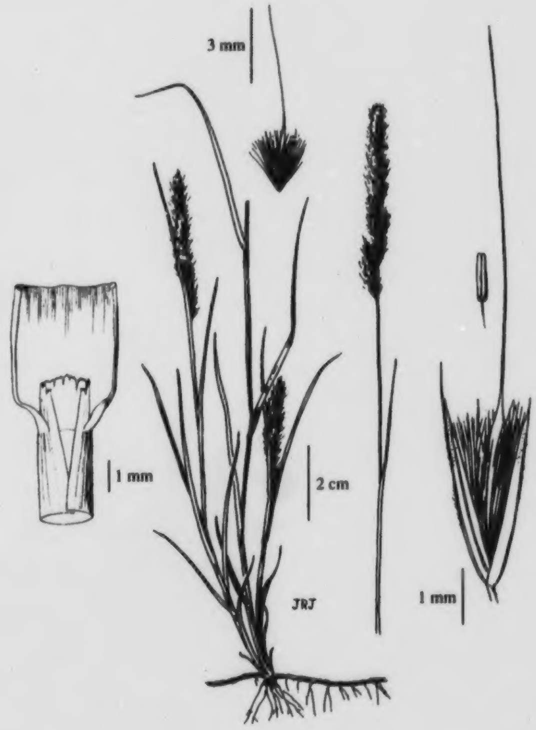
Muhlenbergia andina **(Nutt.) A.S. Hitchc.**

foxtail muhly

Habitat/Range: Wet to moist canyons, streambanks, meadows, and hot springs (in tufa) in the montane zone (IDFdm2); rare in SE BC, known only from Fairmont Hot Springs; disjunctly E to MB and S to TX, NM, AZ and CA.

Global/Provincial Rank: G4 S1 Status: Red



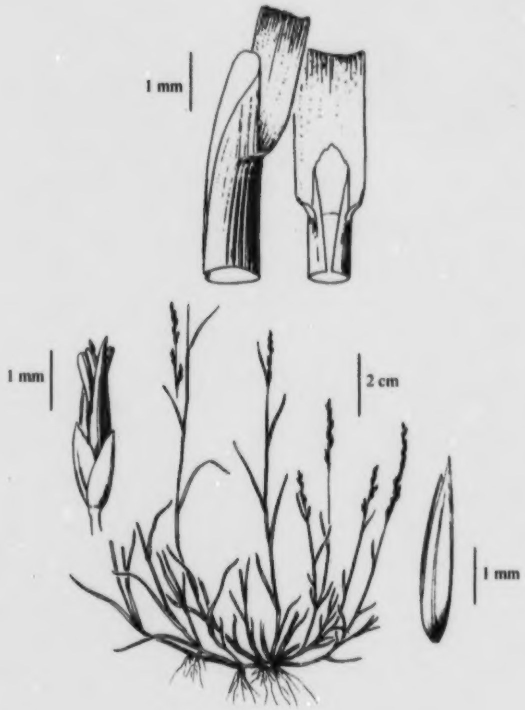


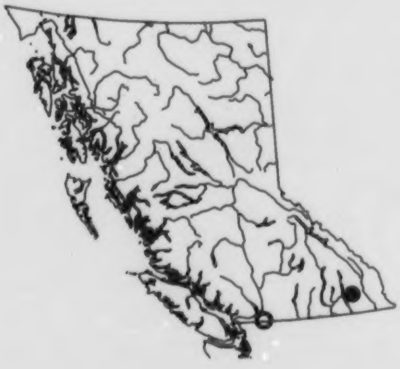
Muhlenbergia filiformis (Thurb.) Rydb.

slender muhly; pull-up muhly

Habitat/Range: Wet to moist meadows, seeps, and streambanks in the montane zone (CWHds1, ICHmw2); rare in SE BC, known recently only from Dewar Creek Hot Springs; E to AB and S to SD, KS, NM, AZ, CA and NW MX.

Global/Provincial Rank: G5 S1 Status: Red



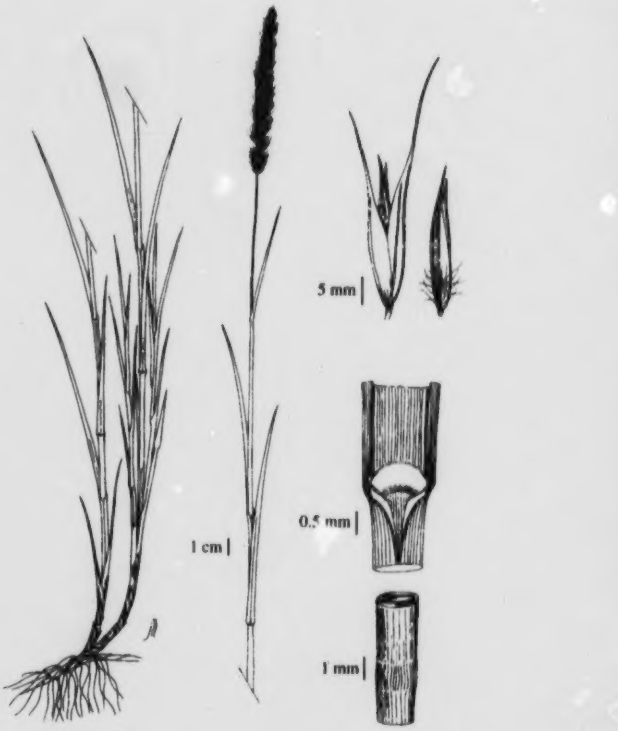


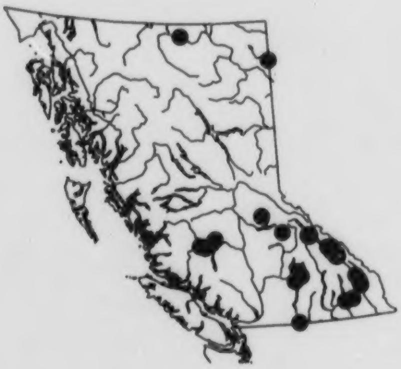
Muhlenbergia glomerata (Willd.) Trin.

marsh muhly

Habitat/Range: Wet to moist mineral-rich or calcareous meadows, streambanks, bogs, irrigation ditches, lake margins, and hot springs in the steppe and montane zones (BGxh1, BWBSdk2, BWBSmw2, ESSFwc2, ICHdw, ICHmw1, ICHmw2, ICHwk1, ICHwk4, IDFdk4, IDFdm2, IDFmw2, IDFun, MSdk, MSdm2, SBPSxc); rare in BC east of the Coast-Cascade Mountains; N to NT, E to NF and S to MA, ME, PA, NC, KY, IL, IA, NE, CO, UT, NV and NE OR.

Global/Provincial Rank: G5 S3 Status: Blue



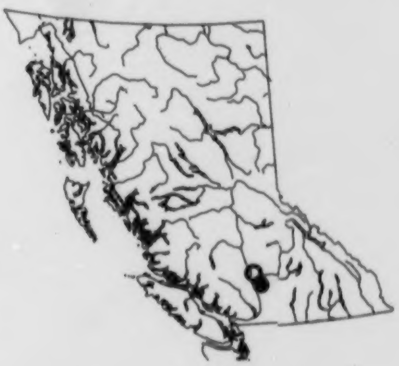


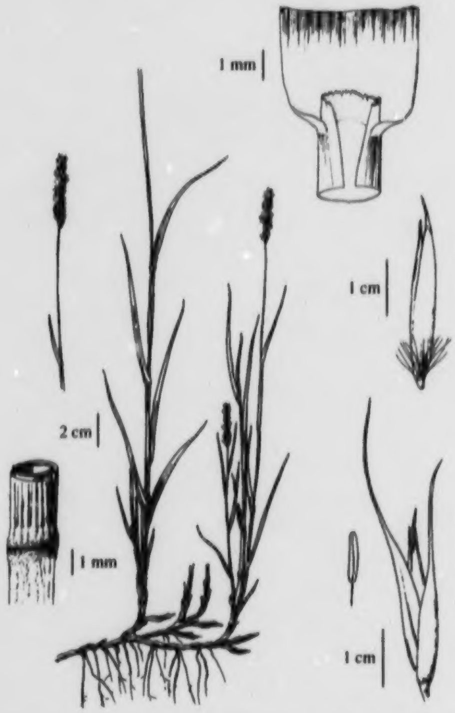
Muhlenbergia racemosa **(Michx.) B.S.P.**

satin grass

Habitat/Range: Moist to dry slopes, open forests and rocky areas in the steppe and montane zones (BGxh2, IDFxh2); rare in SC BC, known recently only from Spences Bridge; E to PQ and S to ME, VA, IN, IL, MO, TX, NM, AZ and OR.

Global/Provincial Rank: G5 S1 Status: Red



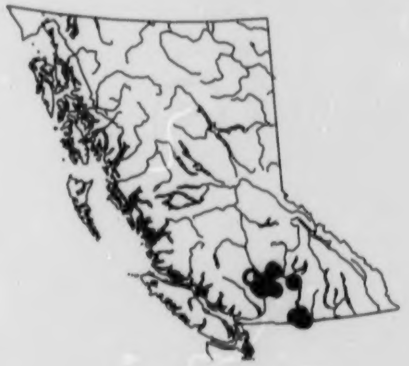


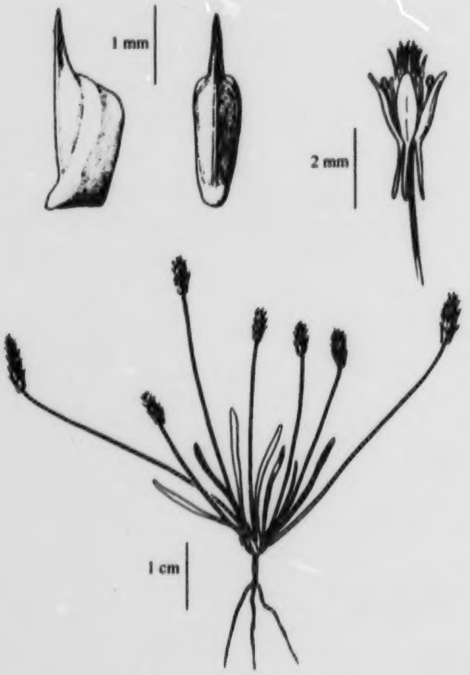
Myosurus apetalus **Gay var. *borealis* Whittemore** (*M. aristatus auct. non* Benth. *ex* Hook., *M. minimus* var. *aristatus* [Benth. *ex.* Hook.] Boivin)

bristly mousetail; sedge mousetail

Habitat/Range: Vernally moist meadows, streambanks and pools in the steppe and montane zones (BGxh1, BGxh2, BGxw1, IDFdm1, IDFxh2, IDFxh2a, PPxh2); rare in SC BC; S to MT, WY, UT, NV and CA.

Global/Provincial Rank: G5T? S2 Status: Red



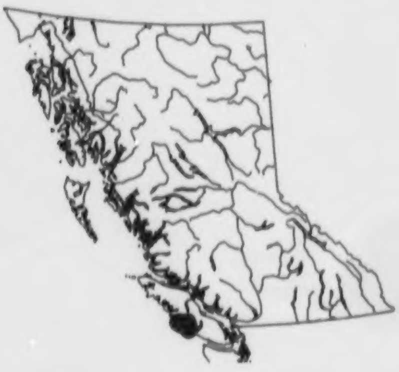


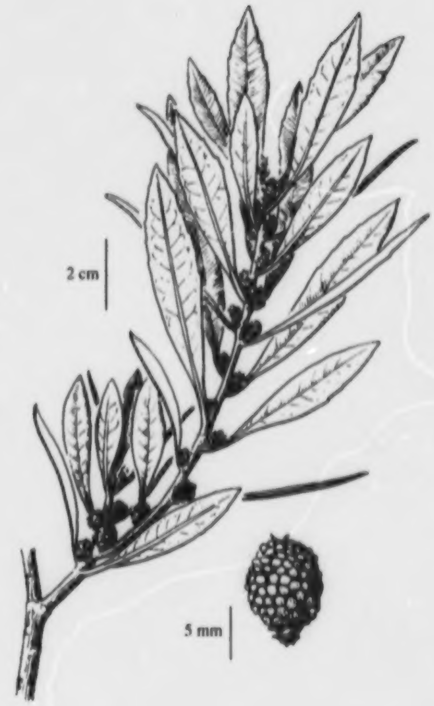
Myrica californica **Cham. & Schlecht.**

California wax-myrtle; bayberry

Habitat/Range: Mesic to moist shoreline thickets, beaches, clearings and roadsides in the lowland zone (CWHvh1); rare in SW BC, known only from the Tofino-Ucluelet area; S to CA.

Global/Provincial Rank: G5 S2S3 Status: Blue



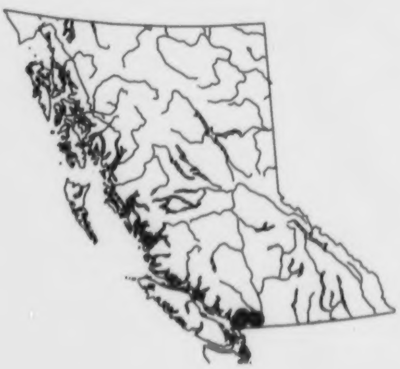


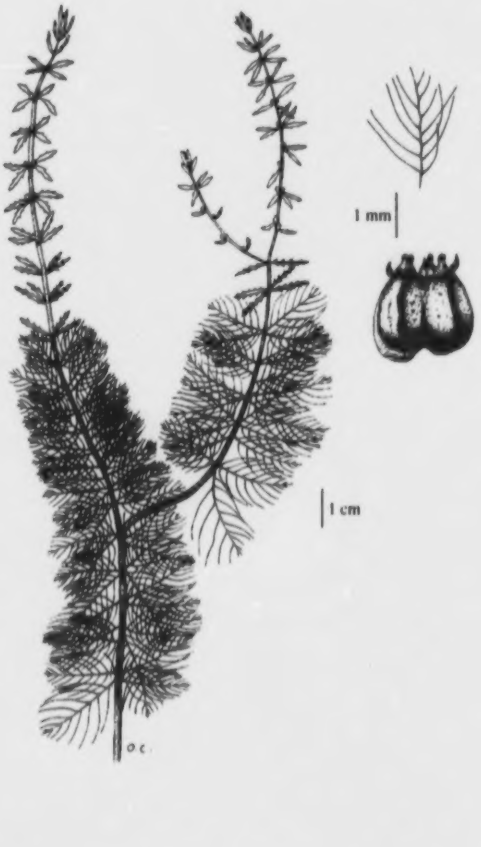
Myriophyllum hippuroides **Nutt.**

western water-milfoil

Habitat/Range: Lakes and sloughs in the lowland zone (CWHdm); rare in SW BC, known only from the lower Fraser River valley; S to WA, CA and MX.

Global/Provincial Rank: G5 S3 Status: Blue



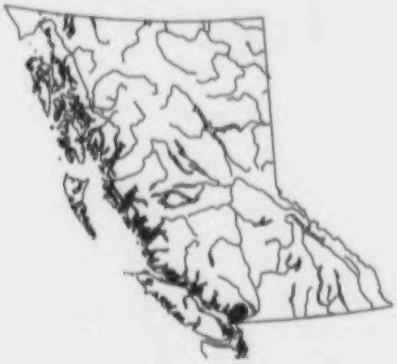


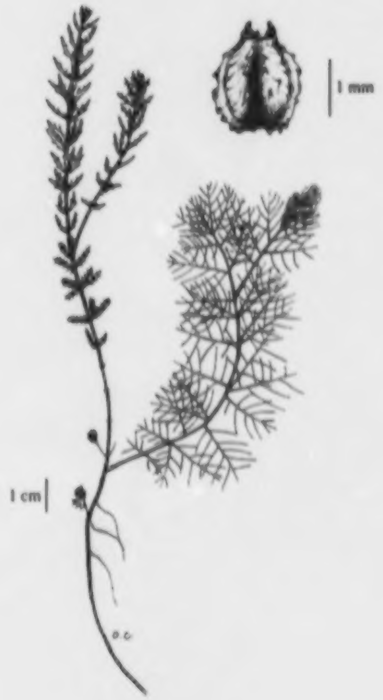
Myriophyllum pinnatum **(Walt.) B.S.P.**

green parrot's-feather

Habitat/Range: Ponds and slough bottoms in the lowland zone (CWHdm); rare in SW BC, known only from the Pitt River area; S to ND, SD, MA, FL and TX.

Global/Provincial Rank: G5 S1 Status: Red



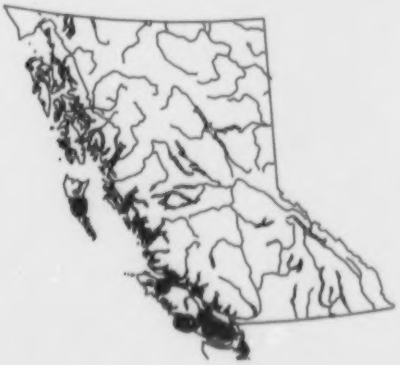


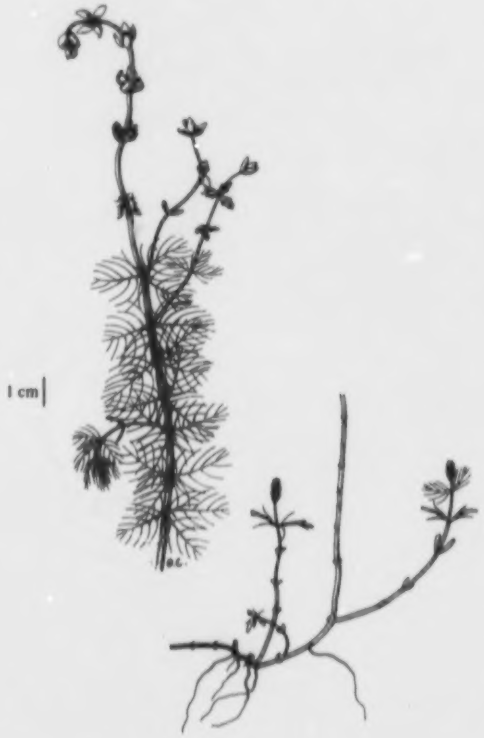
Myriophyllum quitense **H.B.K.** (*M. elatinoides* Gaudich.)

waterwort water-milfoil

Habitat/Range: Large lakes and rivers in the lowland zone (CDFmm, CWHvh1, CWHwh1, CWHxm2); rare on Vancouver Island and the Queen Charlotte Islands; E to PE and S to WA, ID, OR, AZ and MX; S America.

Global/Provincial Rank: G4? S2S3 Status: Blue



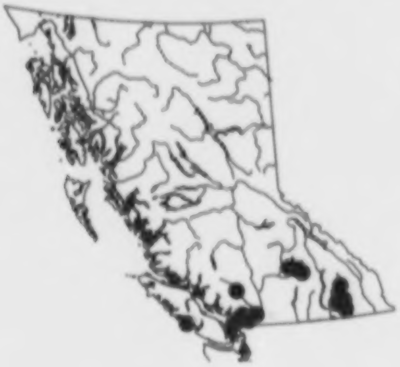


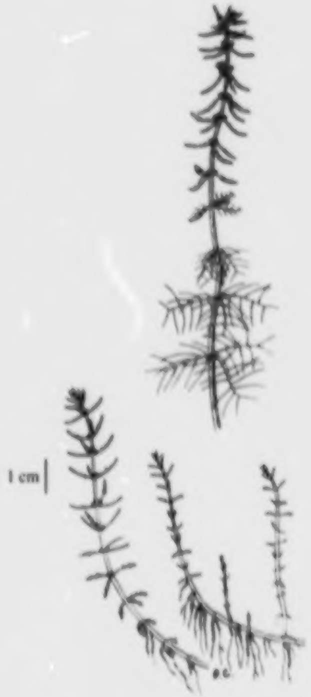
Myriophyllum ussuriense **(Regel) Maxim.** (*M. isoetophyllum* Kom.)

Ussurian water-milfoil

Habitat/Range: Lake margins and muddy river banks in the lowland and montane zones (CDFmm, CWHdm, CWHvh1, ICHdw, IDFmw2); rare on Vancouver Island, in the lower Fraser River valley and SC and SE BC; amphiberingian, in North America known only from BC, WA and OR; China, Primor'ye, Kamchatka, Japan.

Global/Provincial Rank: G3 S3 Status: Blue





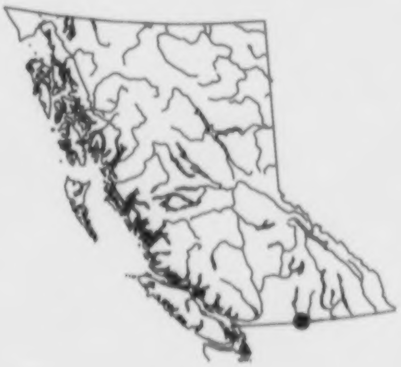
Navarretia divaricata **(Benth.) Hook. var. *divaricata***

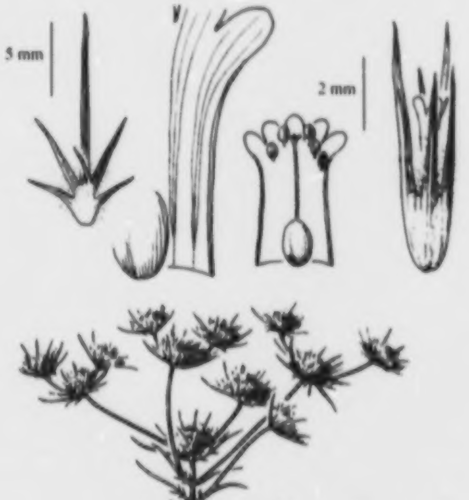
mountain navarretia

Habitat/Range: Dry forest openings in the montane zone (IDFdm1); rare in SC BC, known only from Anarchist Mountain; S to MT, ID, NV and CA.

Global/Provincial Rank: G5T? S1 Status: Red

Notes: The first record of this species was made by F. Lomer in 2000 at Anarchist Mountain.



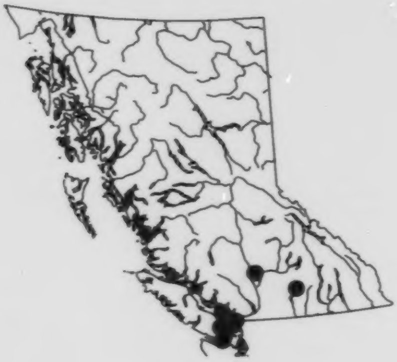


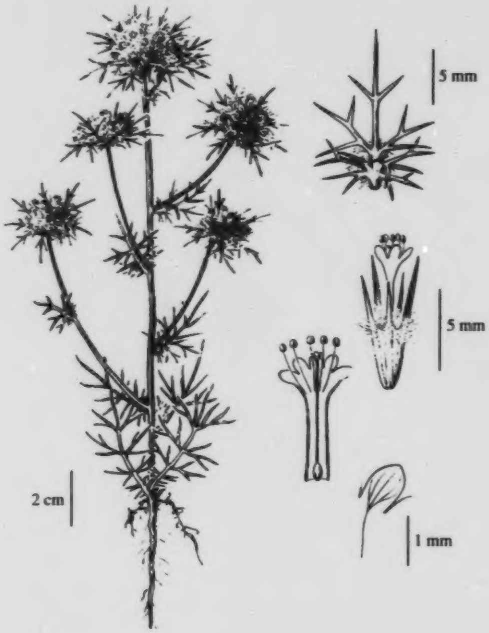
***Navarretia intertexta* (Benth.) Hook.** (*N. minima* Nutt. var. *intertexta* [Benth.] Boivin)

needle-leaved navarretia; pincushion plant

Habitat/Range: Moist meadows and vernal pools in the lowland and montane zones (CDFmm, CWHxm1, ICHmk1, IDFxh2a); rare in SC and SW BC; E to SK and S to CO, AZ and CA.

Global/Provincial Rank: G5? S2 Status: Red



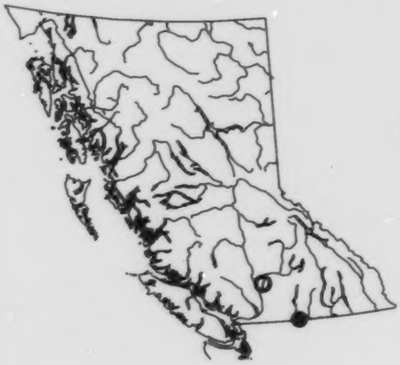


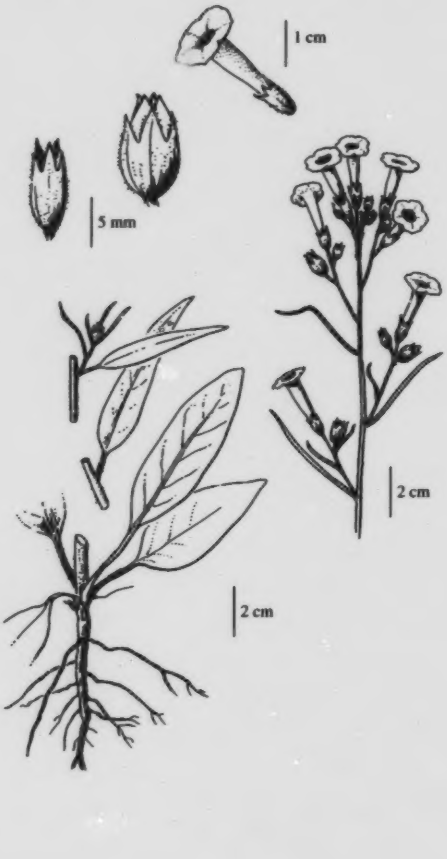
***Nicotiana attenuata* Torr. *ex* S. Wats.**

wild tobacco; coyote tobacco

Habitat/Range: Dry cliff bases and sandy slopes in the steppe zone (BGxh1, BGxh2); rare in SC BC, known recently only from Osoyoos; disjunct E to ON and PQ and S to NH, NY, PA, SC, FL, LA, TX, NM, AZ, CA and MX.

Global/Provincial Rank: G4 S1 Status: Red



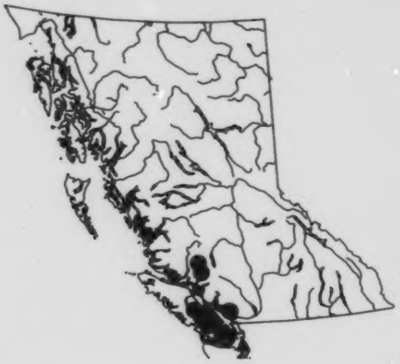


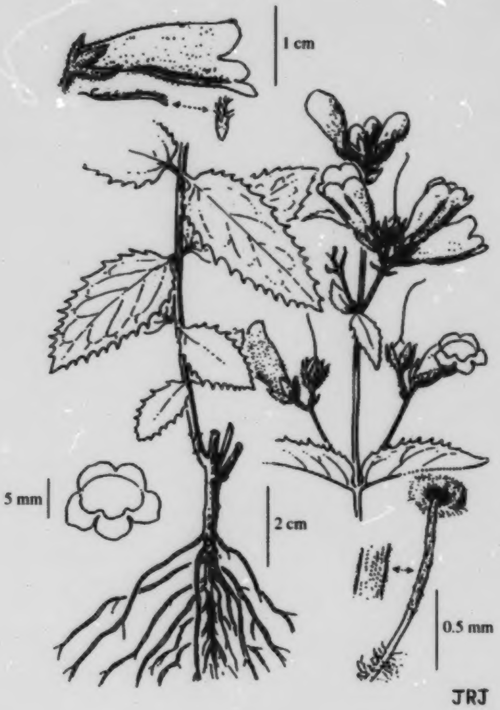
***Nothochelone nemorosa* (Dougl. *ex* Lindl.) Straw**
(*Penstemon nemorosus* [Dougl.] Trautv.)

woodland penstemon

Habitat/Range: Moist forests and rocky slopes in the lowland and montane zones (CDFmm, CWHdm, CWHds1, CWHmm2, CWHvh1, CWHxm1, CWHxm2, MHmm1); rare on S Vancouver Island and the adjacent mainland; S to NW CA.

Global/Provincial Rank: G5 S2S3 Status: Blue



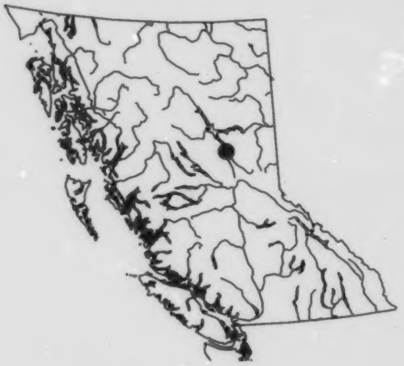


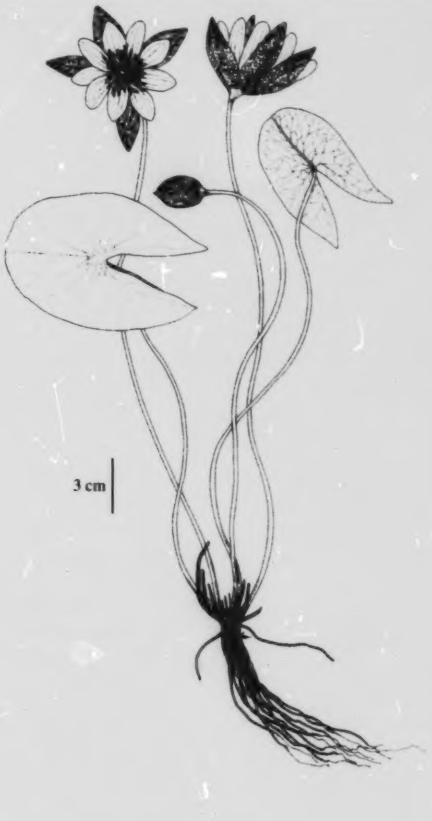
***Nymphaea leibergii* Morong** (*N. tetragona* Georgi ssp. *leibergii* [Morong] A.E. Porsild)

small white waterlily

Habitat/Range: Lakes, ponds and slow-moving streams in the montane zone (SBSmk1); rare in NE BC; E to PQ and S to ME, MI, MN, MT and ID.

Global/Provincial Rank: G5 S2S3 Status: Blue



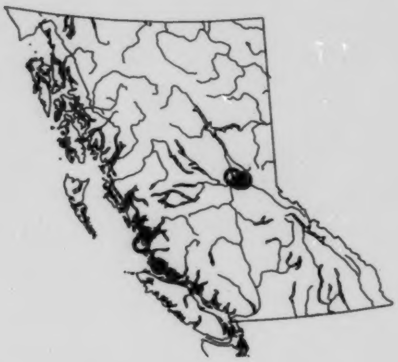


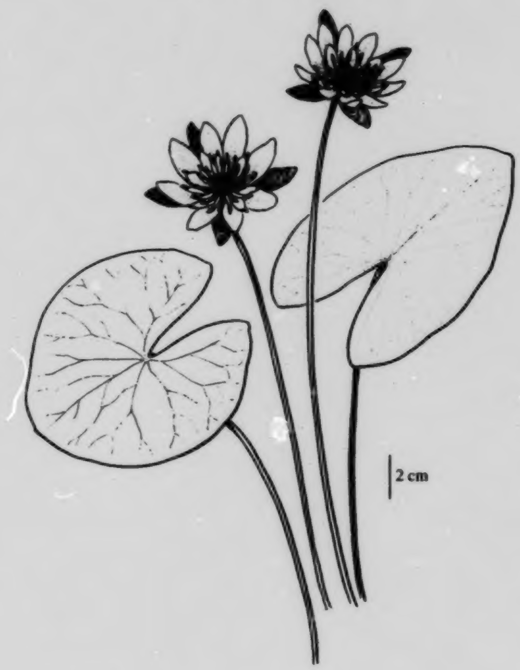
***Nymphaea tetragona* Georgi**

pygmy waterlily

Habitat/Range: Lakes, ponds and slow-moving streams in the lowland and montane zones (CWHvh1, CWHvh2, SBSmk1, SBSwk1); rare in coastal and C BC, northward to NW BC; N to AK and NT and disjunct E to SE MB.

Global/Provincial Rank: G5 S2S3 Status: Blue



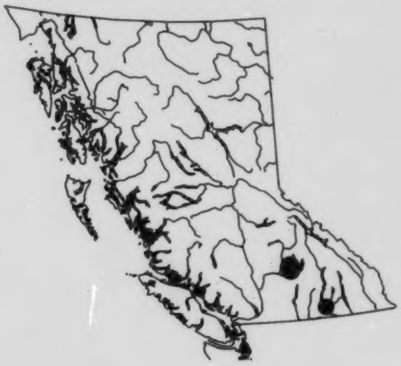


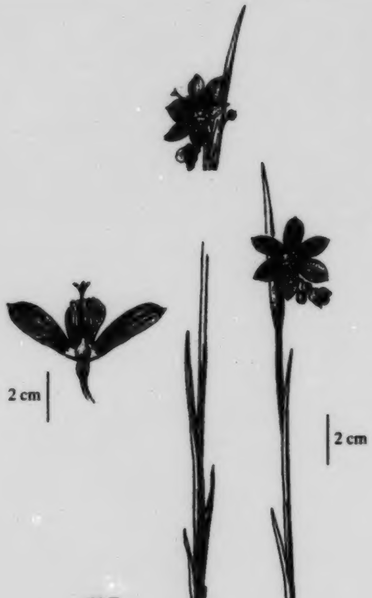
***Olsynium douglasii* (A. Dietr.) Bickn. var. *inflatum* (Suksd.) Cholewa & Henderson** (*Sisyrinchium inflatum* [Suksd.] St. John)

satinflower; purple blue-eyed-grass

Habitat/Range: Moist vernal sites in the montane zone (ICHdw, IDFmw2, IDFxh1); rare in SC and SE BC, S to UT, NV and OR.

Global/Provincial Rank: G4G5T? S1 Status: Red



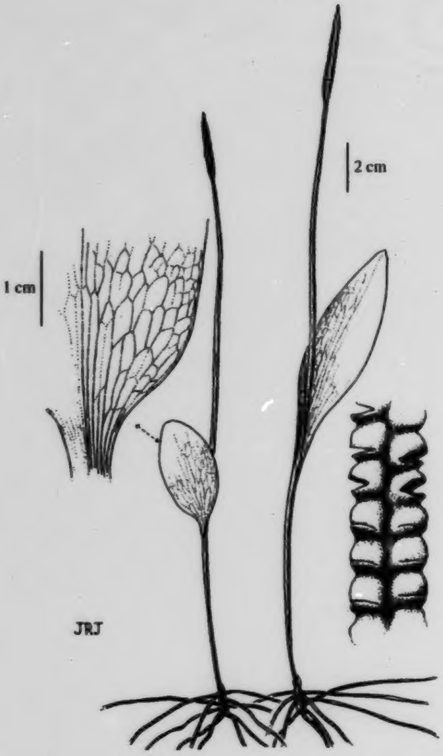


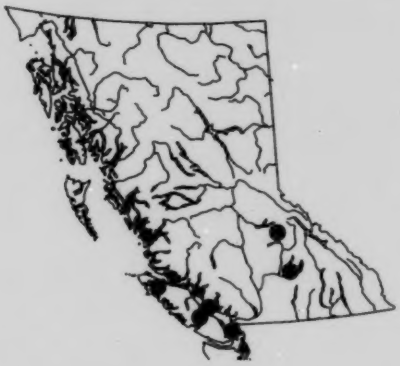
Ophioglossum pusillum **Raf.** (*O. vulgatum auct. non* L., *O. vulgatum* L. var. *pseudopodum* [Blake] Farw., *O. alaskanum* Britton)

northern adder's-tongue

Habitat/Range: Periodically flooded wet meadows, vernal pools and lake margins in the lowland and montane zones (CDFmm, CWHvm1, CWHxm1, ICHmw3, IDFxh1); rare in S BC; N to AK, disjunct E to ON, PQ, NB and NS and S to MA, NH, PA, NC, IA, NE, MT and OR.

Global/Provincial Rank: G5 S2S3 Status: Blue



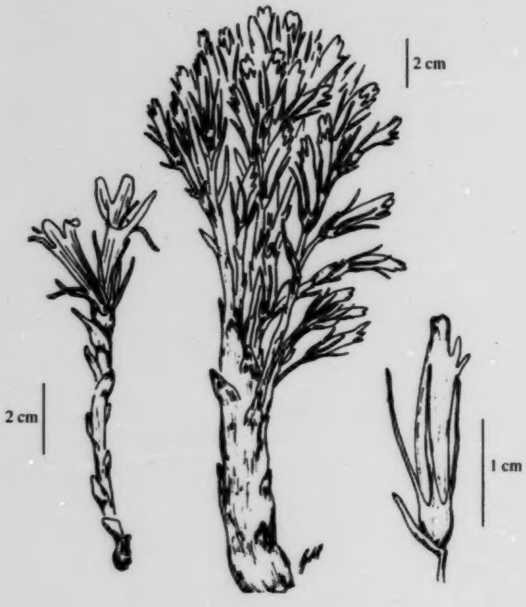


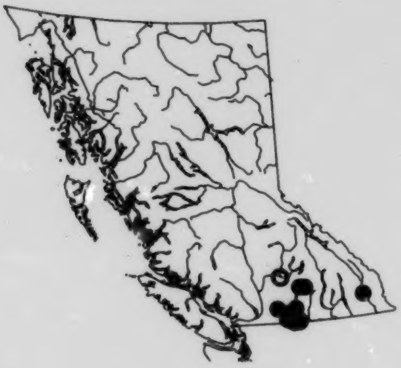
Orobanche corymbosa **(Rydb.) Ferris ssp. *mutabilis* Heckard**

flat-topped broomrape

Habitat/Range: Parasitic, mainly on *Artemisia* in dry shrublands in the steppe and montane zones (BGxh1, BGxh2, ICHmk1, IDFdk1, IDFxh1, IDFxh1a, PPdh2); rare in SC and SE BC; S to MT, WY, UT and NE CA.

Global/Provincial Rank: G4T3? S2 Status: Red



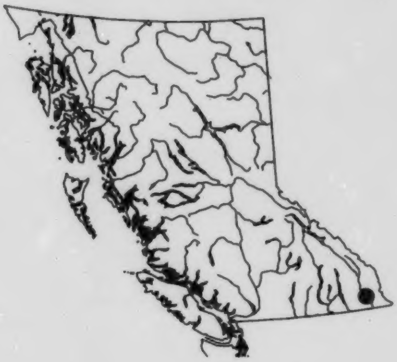


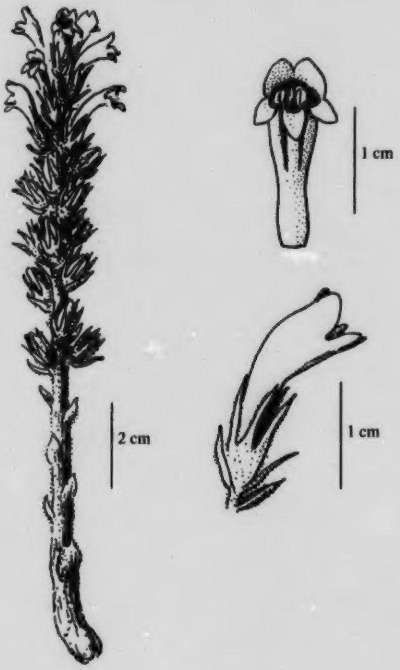
Orobanche ludoviciana **Nutt. ssp.** ***ludoviciana***

Suksdorf's broomrape

Habitat/Range: Parasitic on Asteraceae (especially *Artemisia*) and others; mesic to dry grasslands, shrublands and open forests in the montane zone (IDFdm2); rare in SE BC, known only from Bull River; E to MB and S to IN, ND, NV and OR.

Global/Provincial Rank: G5T5 S1 Status: Red





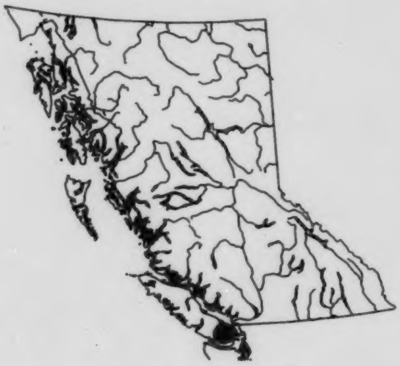
Orobanche pinorum **Geyer** ***ex*** **Hook.**

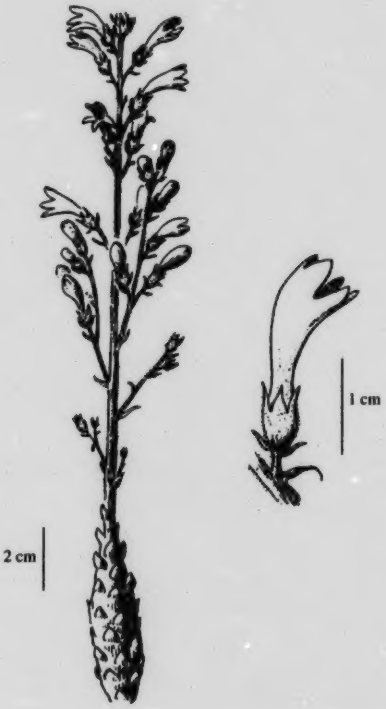
pine broomrape

Habitat/Range: Parasitic on coniferous species; moist to mesic sites in the lowland zone (CWHmm2); rare on S Vancouver Island, S to N ID and NW CA.

Global/Provincial Rank: G4 S1 Status: Red

Notes: This species was collected along the Koksilah River in 2000 by A. Ceska after a hiatus of 86 years.





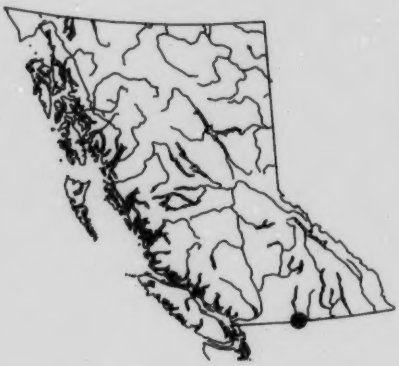
Orthocarpus barbatus **Cotton**

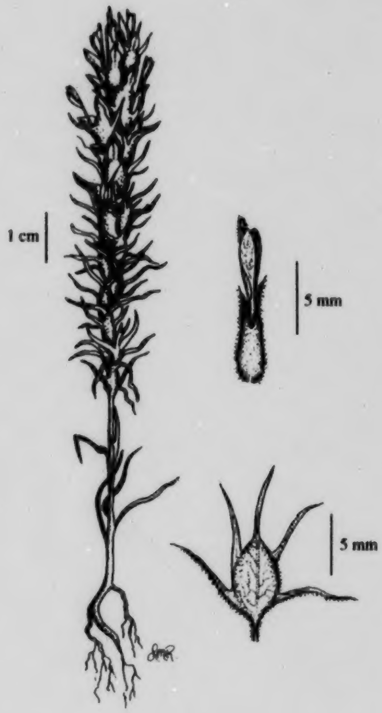
Grand Coulee owl-clover

Habitat/Range: Mesic to dry grasslands and shrublands in the steppe zone (BGxh1); rare in SC BC, known only from near Osoyoos; S to C WA.

Global/Provincial Rank: G2G4 S1 Status: Red

Notes: The first record for this species was made by G.W. Douglas in the Osoyoos area in 1994.



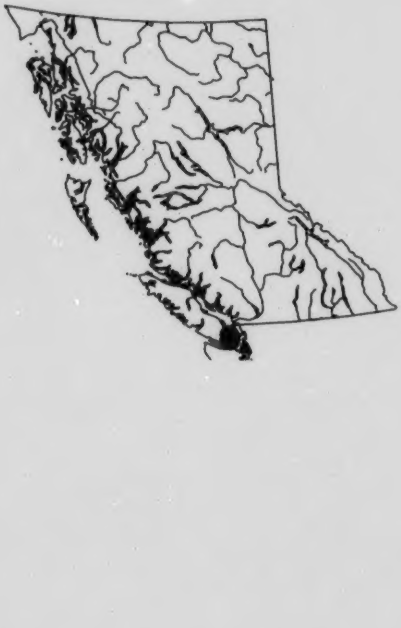


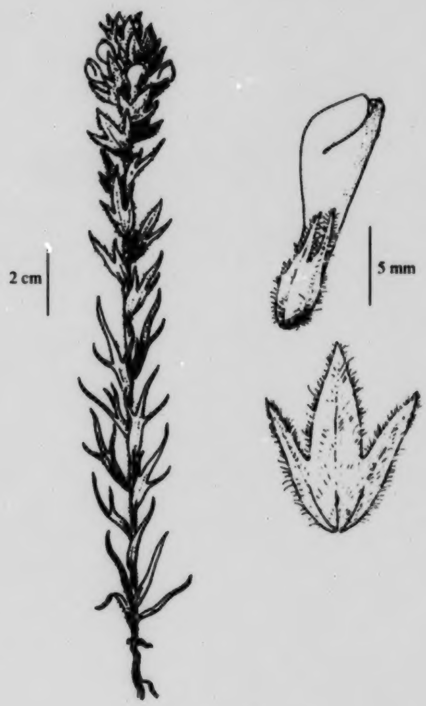
Orthocarpus bracteosus **Benth.**

rosy owl-clover

Habitat/Range: Mesic meadows and fields in the lowland zone (CDFmm); rare, known recently only from Trial Island; S to N CA.

Global/Provincial Rank: G3? S1 Status: Red



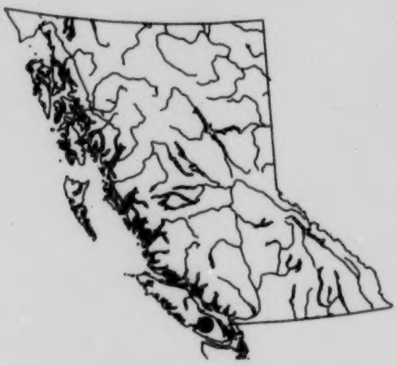


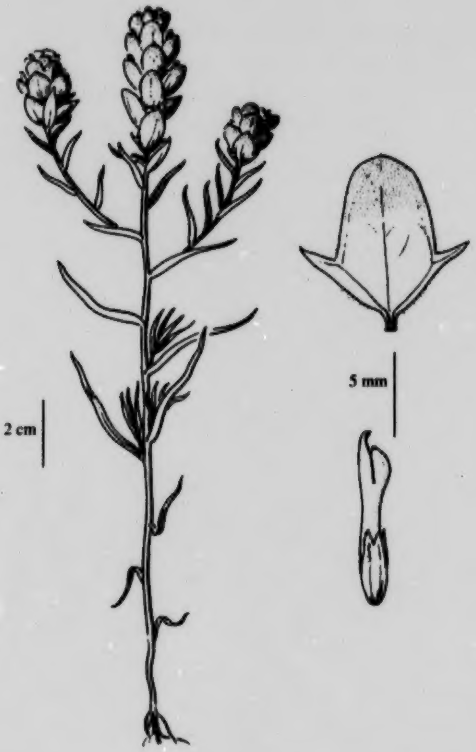
Orthocarpus imbricatus **Torr. *ex* S. Wats.**

mountain owl-clover

Habitat/Range: Mesic to dry rock outcrops, scree slopes and meadows in the subalpine zone (MHmm1); rare on S Vancouver Island, known only from Little Mount Hooper; S to N CA.

Global/Provincial Rank: G5 S1 Status: Red



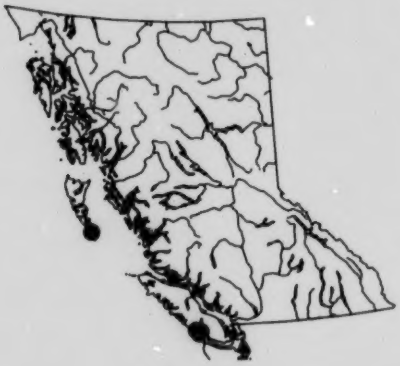


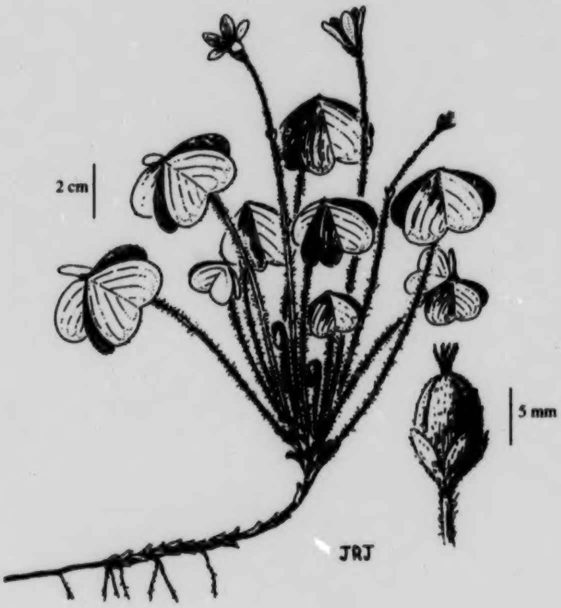
Oxalis oregana **Nutt. *ex* T. & G.**

redwood sorrel

Habitat/Range: Moist forests in the lowland zone (CWHvh1, CWHvh2, CWHvm1); rare on the Queen Charlotte Islands and the W coast of Vancouver Island; S to CA.

Global/Provincial Rank: G5 S2 Status: Red



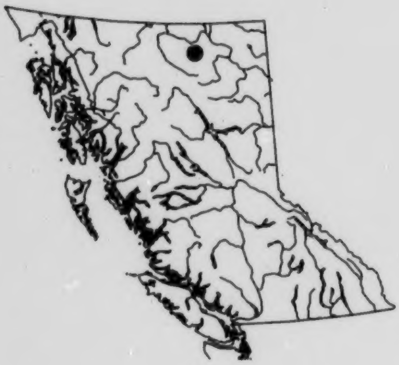


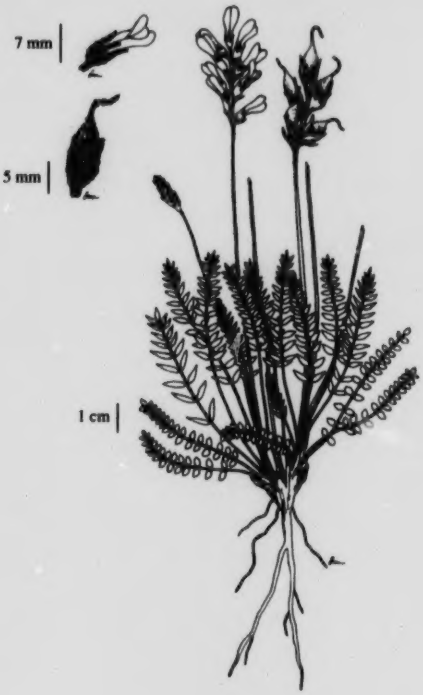
***Oxytropis arctica* R. Br.**

arctic locoweed; arctic oxytrope

Habitat/Range: Dry to mesic sand and gravel bars, rocky ridges and meadows in the montane to alpine zones (BWBSmw2); rare in NE BC, known only from Mile 416 on the Alaska Highway; amphiberingian, N to AK, YT and NT and E to PQ; E Asia

Global/Provincial Rank: G4? S2S3 Status: Blue



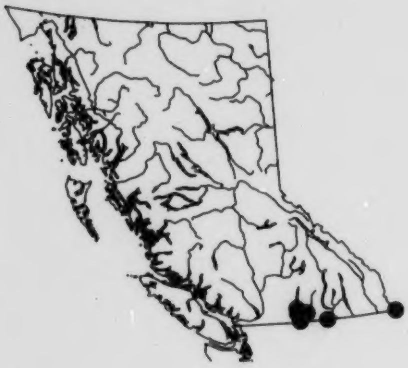


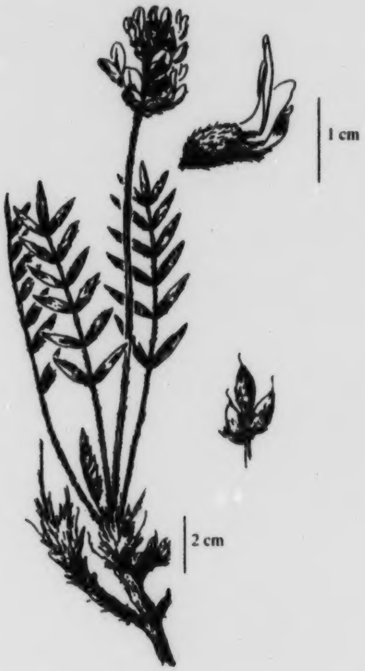
***Oxytropis campestris* (L.) DC. var. *columbiana* (St. John) Barn.** (*O. columbiana* St. John)

Columbia River locoweed

Habitat/Range: Mesic to moist sandy, gravelly or rocky riparian sites in the steppe and montane zone (BGxh1, ICHmw2); rare in SC and SE BC; S to WA, ID and MT

Global/Provincial Rank: G5T3 S3 Status: Blue



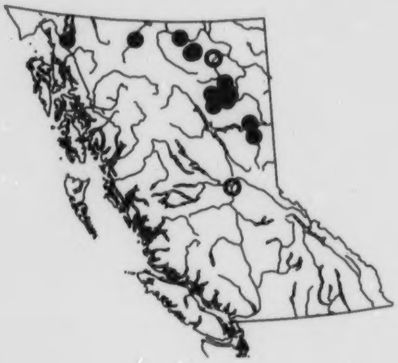


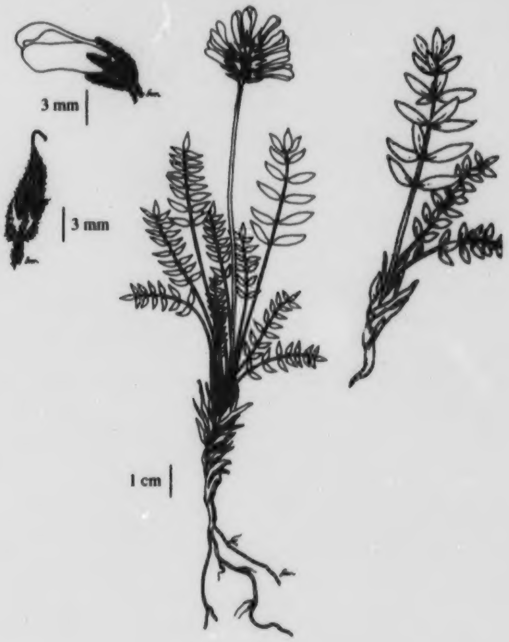
***Oxytropis jordalii* Pors. ssp. *davisii* (Welsh) Elisens & Packer** (*O. campestris* var. *davisii* Welsh)

Davis' locoweed

Habitat/Range: Mesic to dry meadows, gravel bars, forest openings, turfy heath and tundra from the montane to alpine zones (AT, BWBSdk2, BWBSmw1, BWBSmw2, SBSmh, SWBmk); rare in N BC; E to W AB.

Global/Provincial Rank: G4T3 S3 Status: Blue



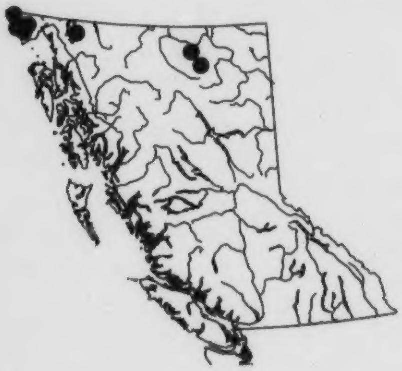


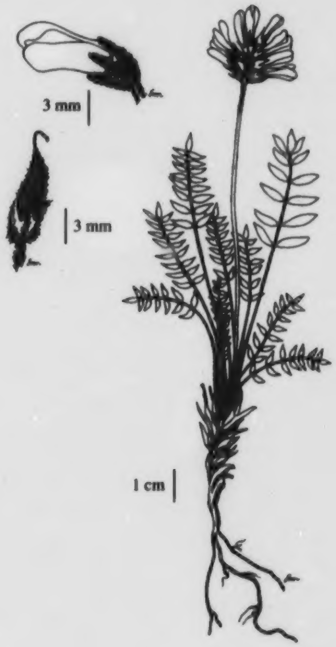
Oxytropis jordalii* Pors. ssp. *jordalii (*O. campestris* [L.] DC. var. *jordalii* [Pors.] Welsh)

Jordal's locoweed

Habitat/Range: Mesic to dry meadows, gravel bars, forest openings, turfy heath and tundra from the montane to alpine zones (AT, BWBSdk1, BWBSvk, SWBmk); rare in N BC; N to AK, YT and NT, disjunct to WC AB.

Global/Provincial Rank: G4T4 S2S3 Status: Blue



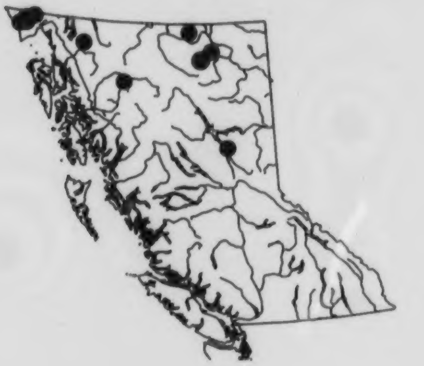


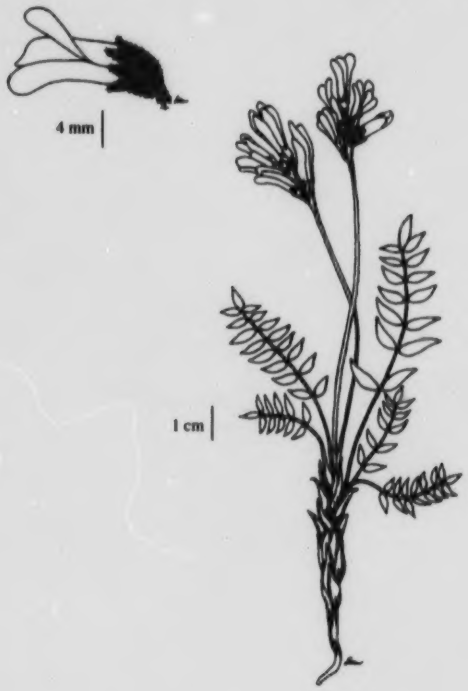
Oxytropis maydelliana **Trautv.**

Maydell's locoweed; Maydell's oxytrope

Habitat/Range: Moist to mesic meadows turfy tundra, rocky ridges and slopes in the montane to alpine zones (AT, BWBSdk1, BWBSmw2, BWBSvk, SWBmk); rare in N BC; amphiberingian, N to AK, YT and NT and E to N PQ; E Asia.

Global/Provincial Rank: G5 S2S3 Status: Blue



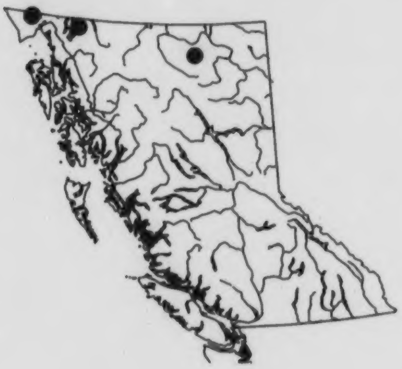


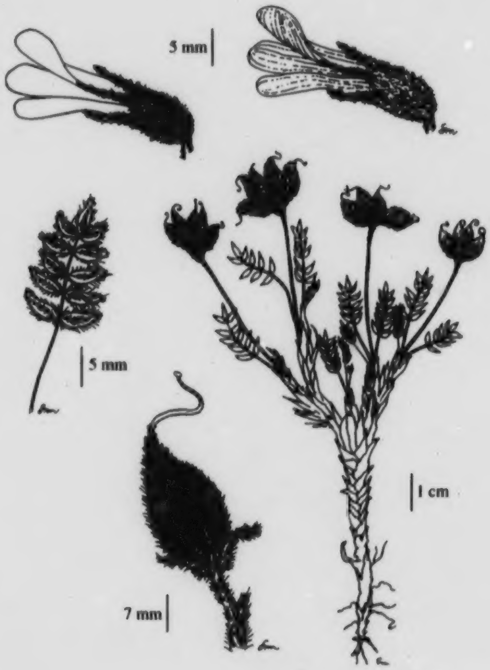
Oxytropis scammaniana **Hult.**

Scamman's locoweed; Scamman's oxytrope

Habitat/Range: Mesic to dry stony slopes, heath and tundra in the montane to alpine zones (BWBSmw2, SWBdk, SWBun); rare in N BC; N to AK and YT.

Global/Provincial Rank: G3G4 S2S3 Status: Blue



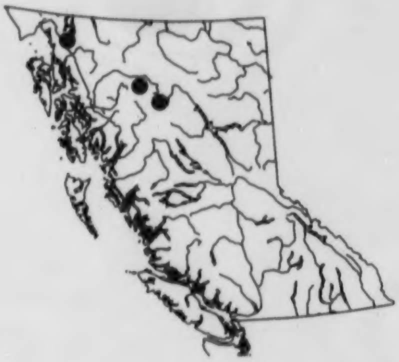


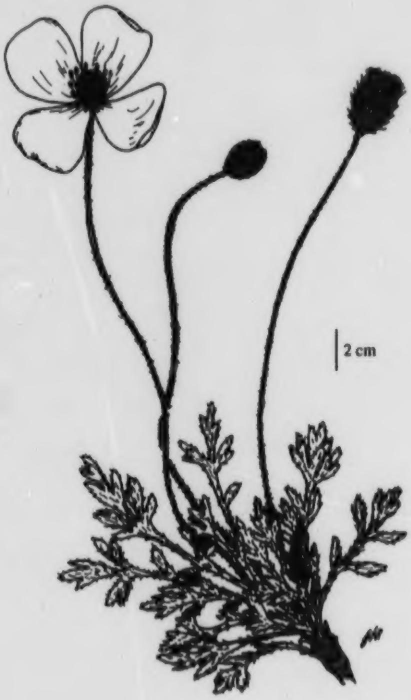
Papaver alboroseum **Hult.**

pale poppy

Habitat/Range: Mesic to dry scree slopes in the alpine zone (AT); rare in NW BC; amphiberingian, N to AK and YT; Kamchatka.

Global/Provincial Rank: G3G4 S2S3 Status: Blue



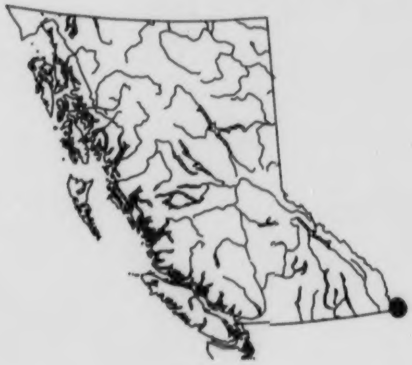


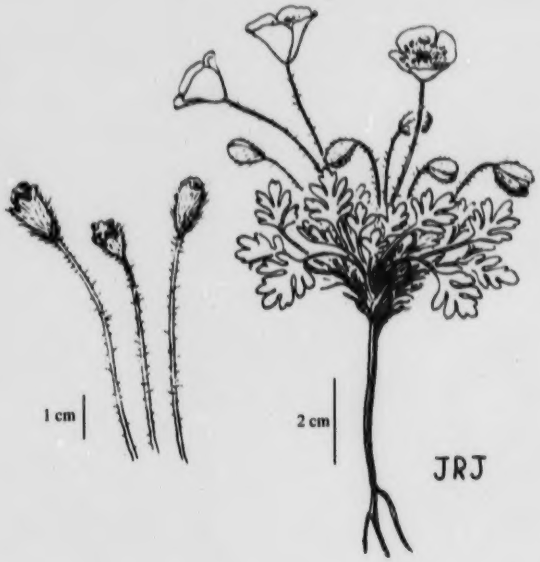
Papaver pygmaeum **Rydb.** (*P. alpinum auct. non* L.)

dwarf poppy

Habitat/Range: Dry talus and scree slopes in the alpine zone (AT); rare in SE BC; E to AB and S to NW MT.

Global/Provincial Rank: G3 S2S3 Status: Blue





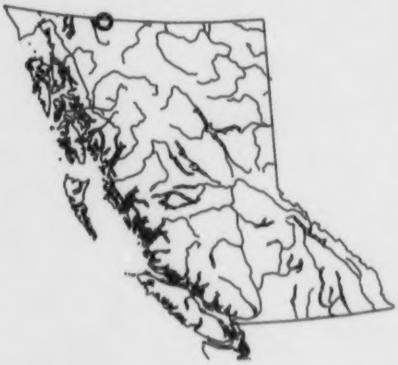
***Parrya nudicaulis* (L.) Boiss.** (*P. nudicaulis* ssp. *interior* Hult.)

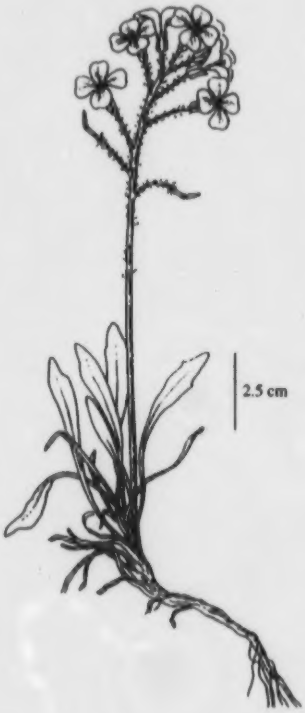
northern parrya

Habitat/Range: Moist to mesic meadows in the alpine zone (AT); rare in NW BC, known only from Logjam Creek; amphiberingian, N to AK, YT and NT; Asia.

Global/Provincial Rank: G5 SH Status: Red

Notes: This species was last collected in 1945.



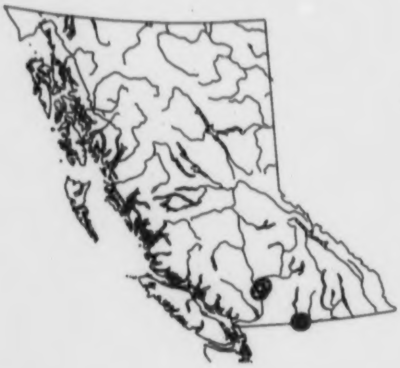


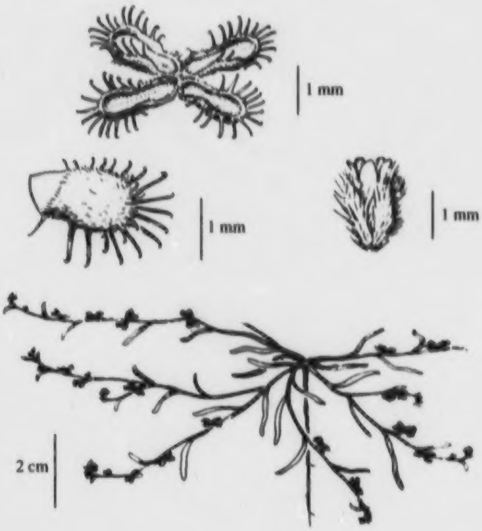
***Pectocarya penicillata* (Hook & Arn.) A. DC.** (*P. linearis* [Ruiz & Pavon] A. DC. var. *penicillata* [Hook & Arn.] M. E. Jones)

winged combseed

Habitat/Range: Dry grasslands and shrublands in the steppe zone (BGxh1, BGxh2); rare in SC BC; S to ID, UT and MX; Argentina, Chile.

Global/Provincial Rank: G5 S1 Status: Red



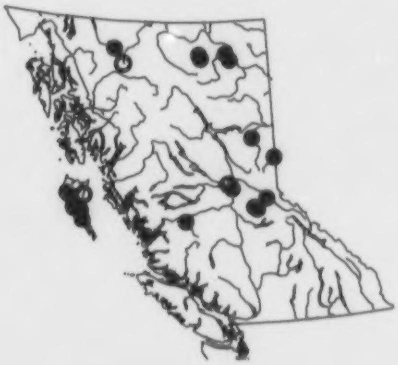


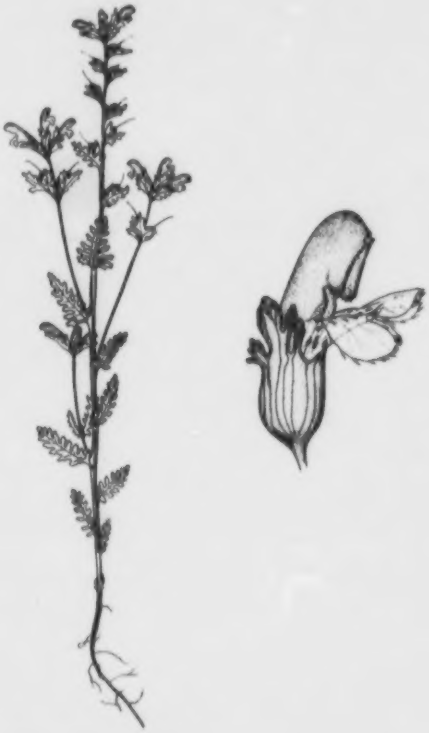
Pedicularis parviflora* Sm. *ex* Rees. ssp. *parviflora (*P. macrodonta* Richards., *P. pennellii* Hult. ssp. *insularis* Calder & Taylor)

small-flowered lousewort

Habitat/Range: Wet meadows, fens and bogs in the montane and subalpine zones; rare in BC north of 52°N (CWHvh2, ICHmk3, ICHwk3, MHwh, MSxv, SBSmh, SBSmk1, SWBmk, SBSwk1, SWBun); circumboreal, N to AK, YT and NT; E to PQ and S to OR; N Asia.

Global/Provincial Rank: G4T4 S3 Status: Blue





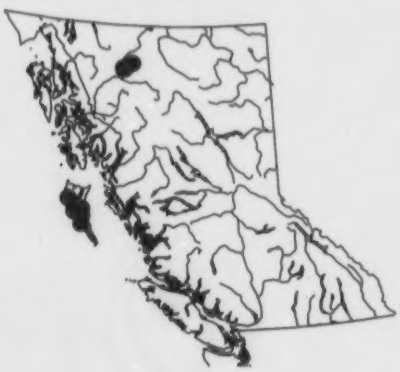
***Pedicularis verticillata* L.**

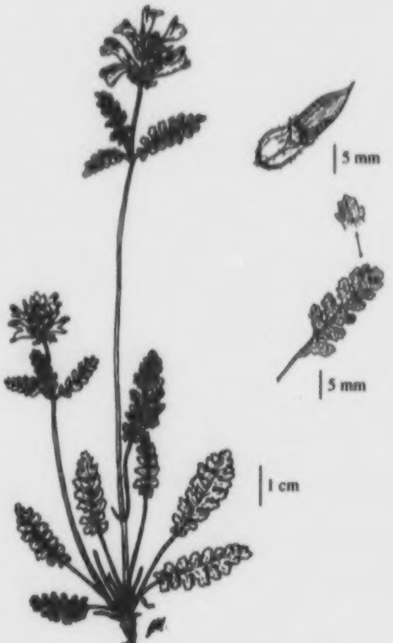
whorled lousewort

Habitat/Range: Moist meadows, rocky slopes, heath and turfy tundra in the montane to alpine zones (AT, SWBun, CWHvh2, CWHwh1, MHwh); rare in N BC and the Queen Charlotte Islands; N to AK, YT and NT.

Global/Provincial Rank: G4 S2S3 Status: Blue

Notes: For colour illustration see Pojar and MacKinnon (1994) and White and Williams (1974).



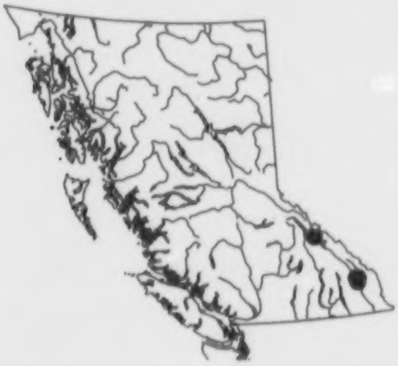


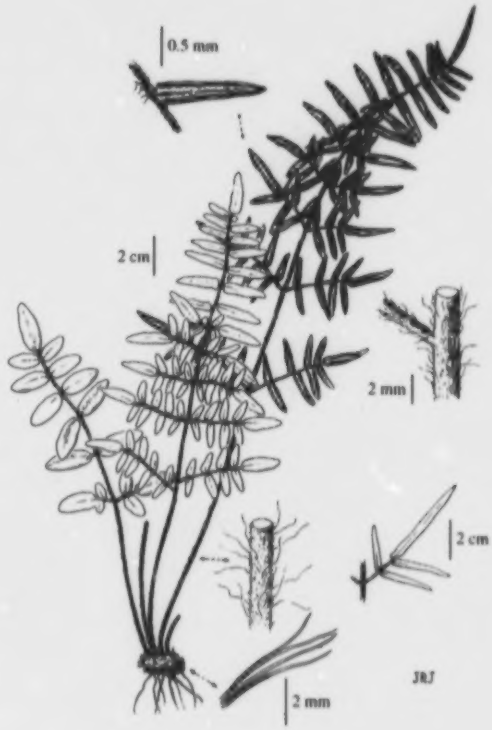
***Pellaea gastonyi* Windham** (*P. atropurpurea auct. non* [L.] Link.)

Gastony's cliff-brake

Habitat/Range: Dry calcareous cliffs and crevices in the montane and subalpine zones (ESSFwc2, IDFdm2); rare in SE BC; E to SK and disjunct in WY, SD, and MO.

Global/Provincial Rank: G2G3 S2 Status: Red





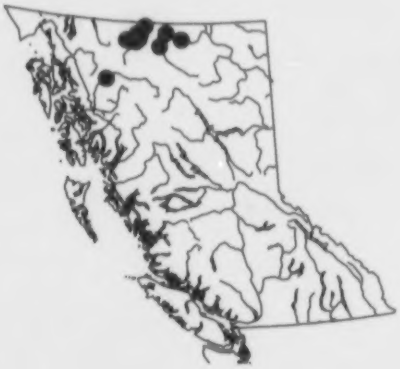
***Penstemon gormanii* Greene**

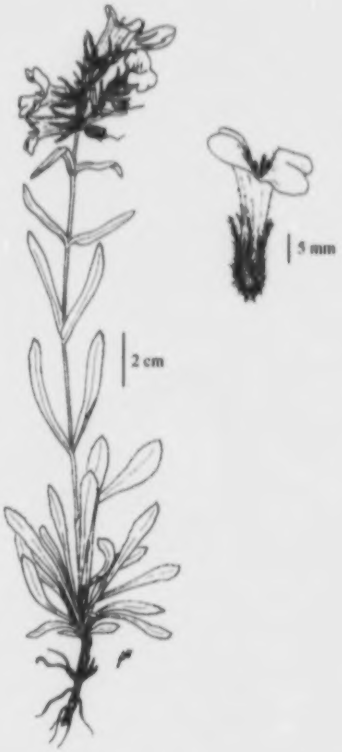
Gorman's penstemon

Habitat/Range: Dry rocky slopes, sand dunes, sandy or gravelly river terraces, clearings and cutbanks in the montane zone (BWBSdk1, BWBSdk2); rare in N BC; N to AK, YT and NT.

Global/Provincial Rank: G4 S2S3 Status: Blue

Notes: For colour illustration see MacKinnon *et al.* (1992) and White and Williams (1974).



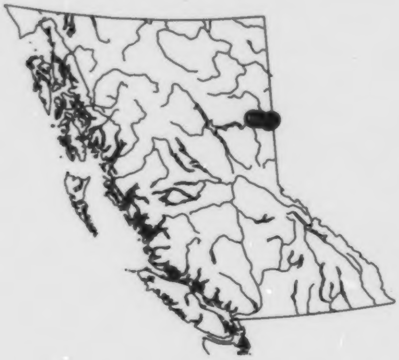


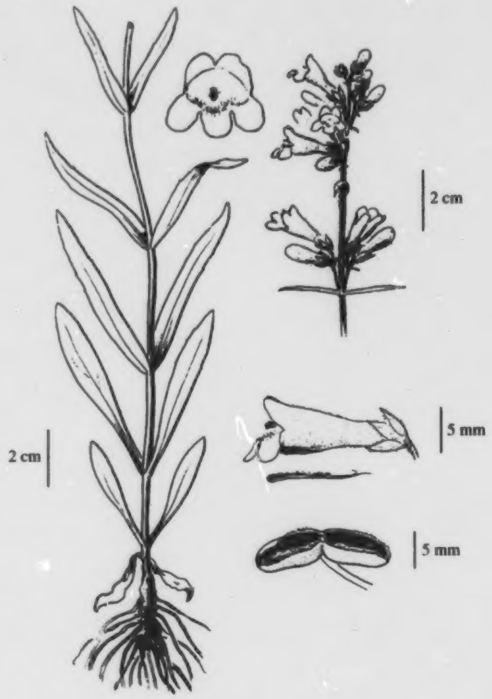
Penstemon gracilis Nutt.

slender penstemon

Habitat/Range: Dry to moist, sandy or rocky grasslands (BWBSmw1); rare in NE BC, known only from the Peace River area; E to ON and S to IN, IL, NE and NM.

Global/Provincial Rank: G5 S2 Status: Red



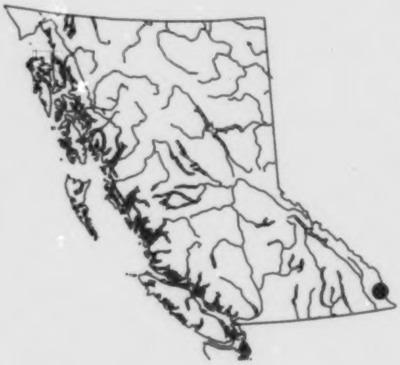


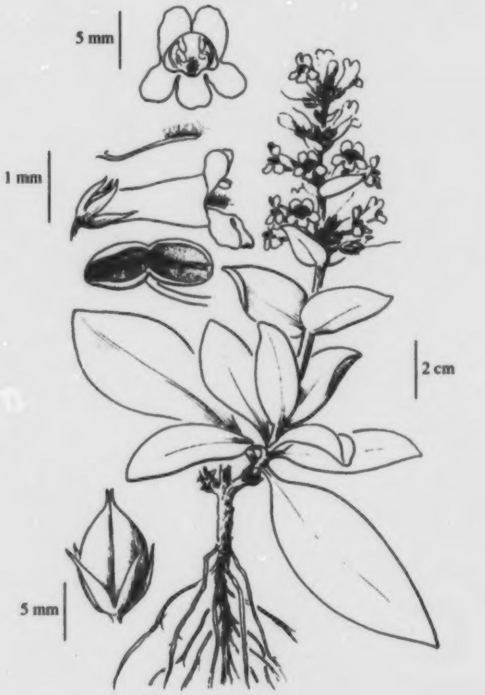
Penstemon nitidus Dougl. *ex* Benth. var. *nitidus*

shining penstemon

Habitat/Range: Dry hillsides, grasslands and roadside banks in the montane zone (MSdk); rare in extreme SE BC, known only from Crowsnest Pass; E to SK and S to ND and CO.

Global/Provincial Rank: G5T? S1 Status: Red



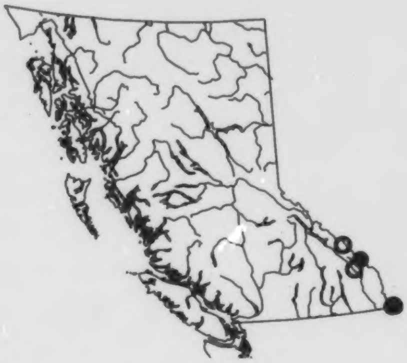


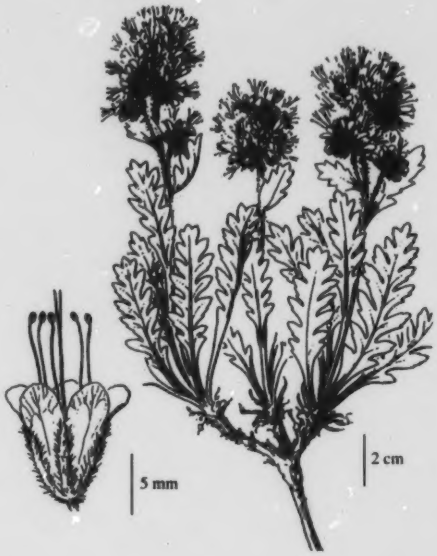
Phacelia lyallii (A. Gray) Rydb.

Lyall's phacelia

Habitat/Range: Dry scree slopes and cliffs in the alpine zone (AT); rare in SE BC; E to SW AB and S to ID and W MT.

Global/Provincial Rank: G3G4 S2S3 Status: Blue





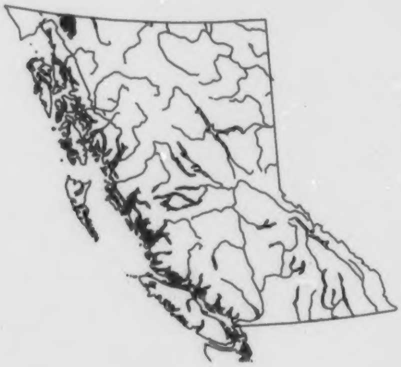
Phacelia mollis J.F. Macbr.

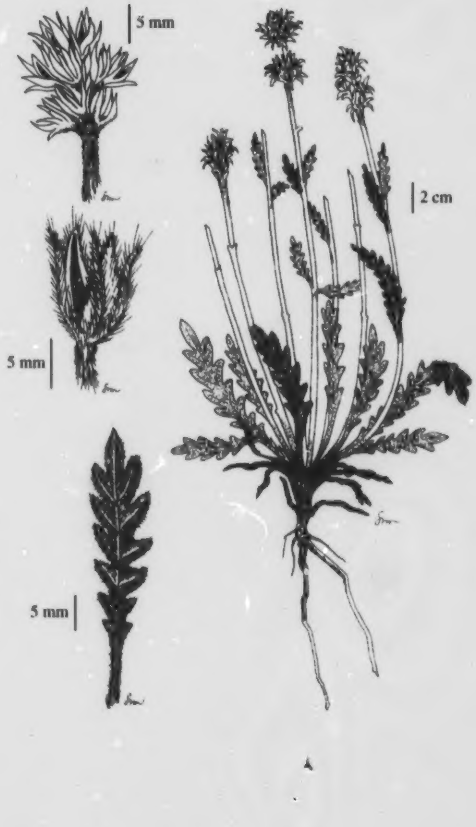
Macbride's phacelia

Habitat/Range: Mesic to dry sandy or gravelly roadsides and disturbed areas in the montane zone (BWBSdk1); rare in NW BC; N to AK and SW YT.

Global/Provincial Rank: G3 S1 Status: Red

Notes: This species was cited by Straley *et al.* (1985) and later taken up by Douglas *et al.* (1990), however, the CDC has yet to locate voucher material.



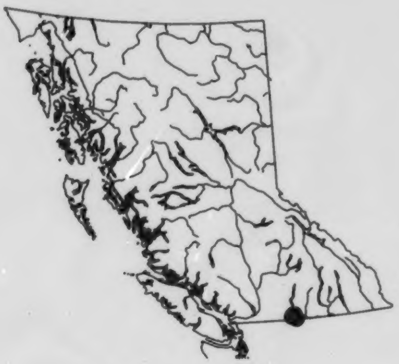


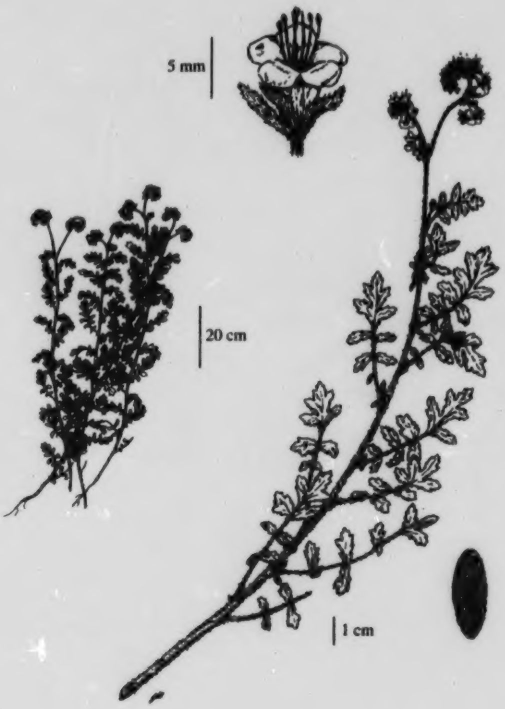
Phacelia ramosissima **Dougl. *ex* Lehm.**

branched phacelia

Habitat/Range: Dry rocky soil and talus below limestone cliffs in the steppe zone (BGxh1); rare in SC BC (Osoyoos area); S to SE ID, AZ, NV and CA.

Global/Provincial Rank: G4 S2 Status: Red





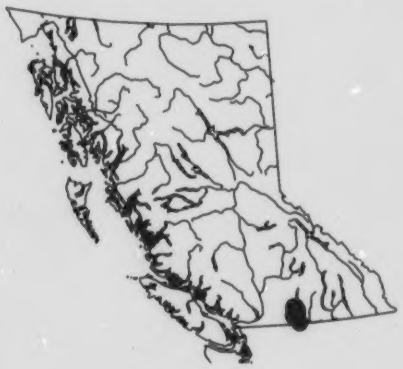
Phlox speciosa **Pursh ssp. *occidentalis* (Dur. *ex* Torr.) Wherry**

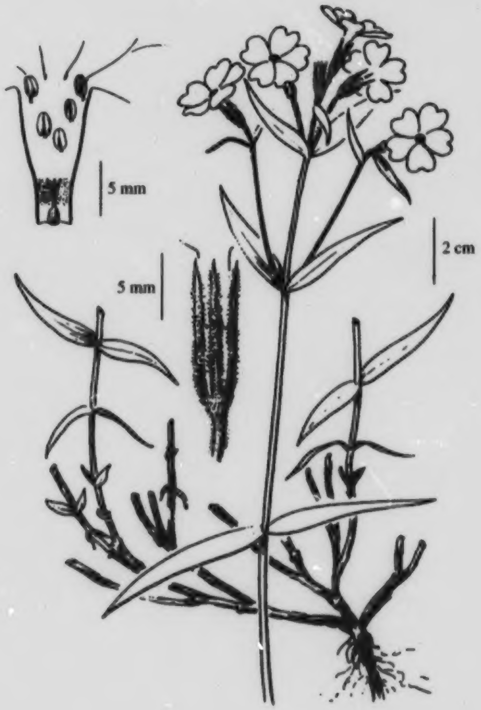
showy phlox

Habitat/Range: Dry grasslands, shrublands and open forests in the steppe and montane zones (BGxh1, IDFdm1); rare in SC BC, known recently only from Yellow Lake and Twin Lakes; S to ID, MT and N CA.

Global/Provincial Rank: G5T? S1 Status: Red

Notes: For colour illustration see Taylor (1992).



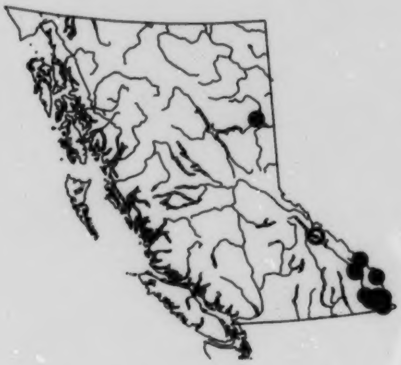


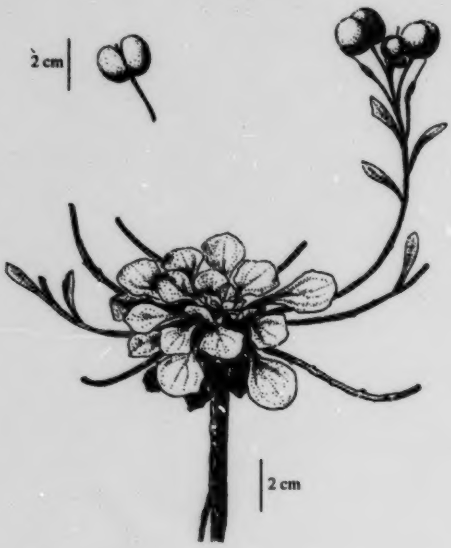
Physaria didymocarpa **(Hook.) A. Gray var. *didymocarpa***

common twinpod

Habitat/Range: Dry grasslands, shrublands and rock and scree slopes in the montane to alpine zones (AT, ESSFdk, ESSFwc2, ESSFwmp, IDFdm2, IDFun, PPdh2); rare in E BC; E to SW AB and S to WA, ID, and WY.

Global/Provincial Rank: G5T4 S2S3 Status: Blue



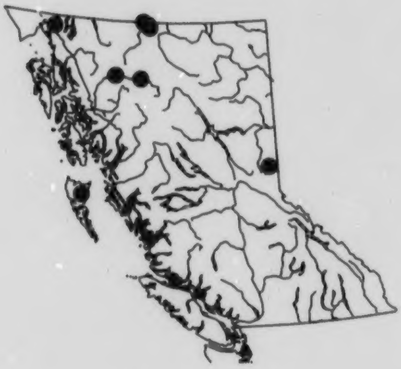


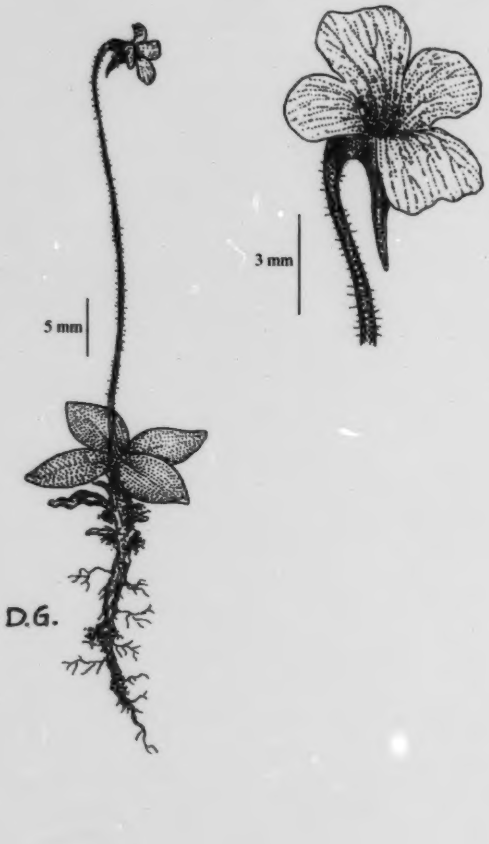
Pinguicula villosa **L.**

hairy butterwort

Habitat/Range: Bogs and ponds (usually in *Sphagnum*) in the lowland and montane zones (BWBSdk1, BWBSdk2, CWHvh2, CWHwh1, MSdk); rare in N BC and on the Queen Charlotte Islands; circumboreal, N to AK, YT and NT and E to Labr.; Eurasia.

Global/Provincial Rank: G4 S2S3 Status: Blue





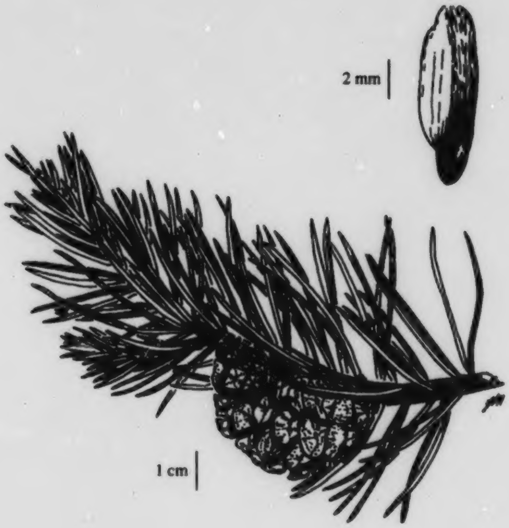
***Pinus banksiana* Lamb.** (*P. divaricata* [Ait.] Dumort.)

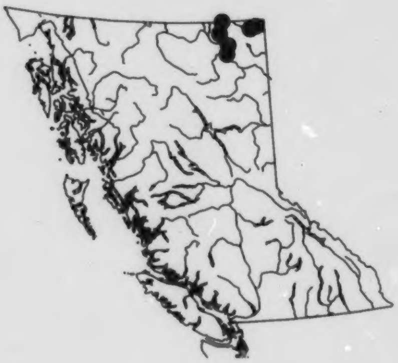
jack pine

Habitat/Range: Dry slopes in the montane zone (BWBSmw2); rare in extreme NE BC; N to NT, E to PQ, PE and NS, and S to MN, MS, IL and NY.

Global/Provincial Rank: G5 S2S3 Status: Blue

Notes: Hybridizes with *P. contorta* var. *latifolia*; these have been named *P.* x *murraybanksiana* Righter & Stockwell.





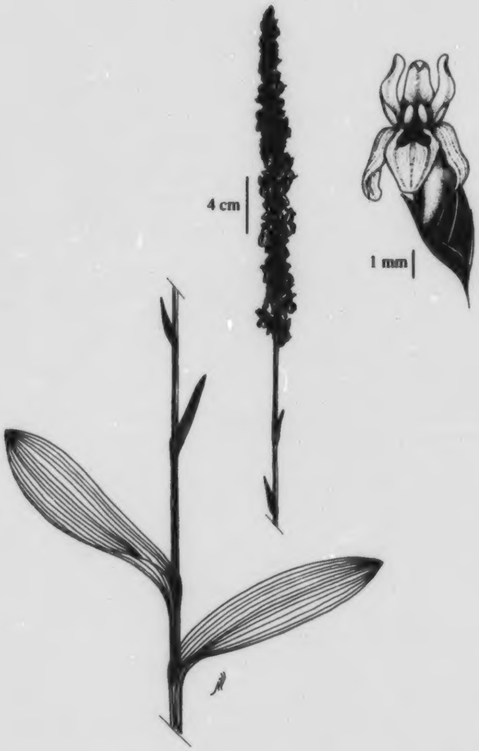
***Piperia candida* Morgan & Ackerman**

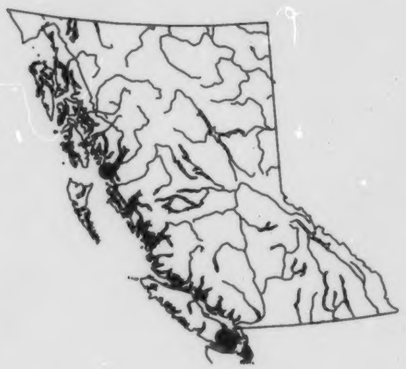
white-lip rein orchid

Habitat/Range: Dry forests and forest margins in the lowland to montane zones (CDFmm, CWHvh2); rare in coastal BC; N to AK and S to CA.

Global/Provincial Rank: G3G4 S2 Status: Red

Notes: First reported for BC by Morgan & Ackerman (1990).



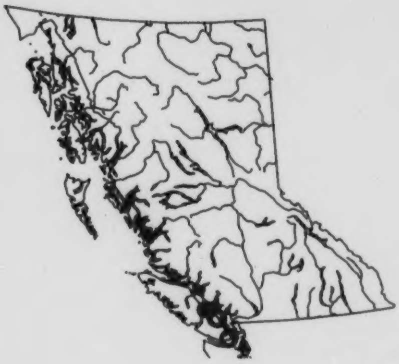


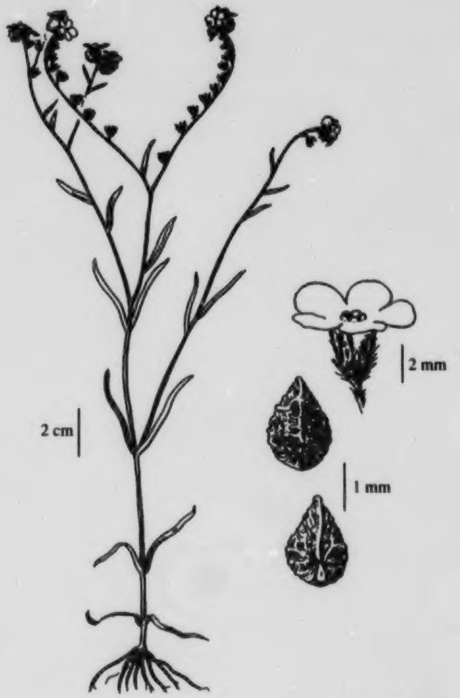
Plagiobothrys figuratus (Piper) Johnst. _ex_ M.E. Peck

fragrant popcornflower

Habitat/Range: Moist to mesic coastal bluffs in the lowland zone (CDFmm); rare on SE Vancouver Island and the Gulf Islands, known recently only from Cape Gurney (Hornby Island); S to OR.

Global/Provincial Rank: G4 S1 Status: Red



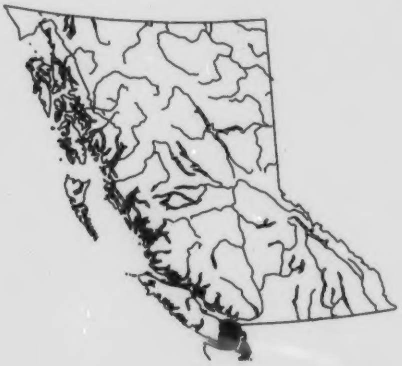


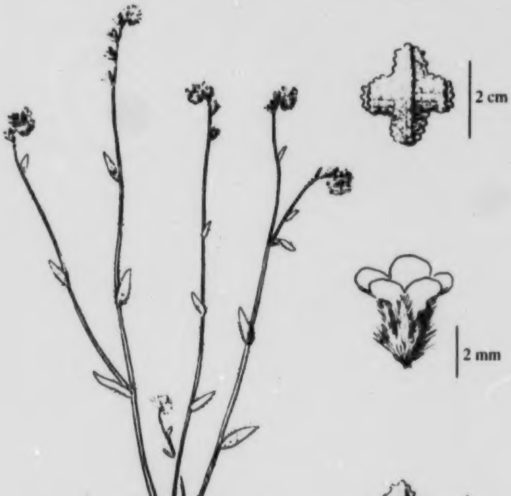
Plagiobothrys tenellus (Nutt. _ex_ Hook.) A. Gray

slender popcornflower

Habitat/Range: Dry meadows and coastal bluffs in the lowland zone (CDFmm); rare on S Vancouver Island and the Gulf Islands; S to ID, UT and Baja CA.

Global/Provincial Rank: G4G5 S2 Status: Red





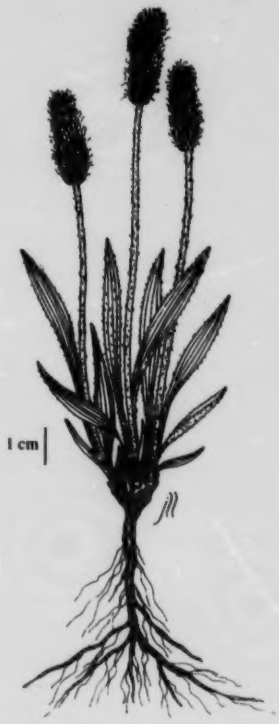
Plantago canescens Adams

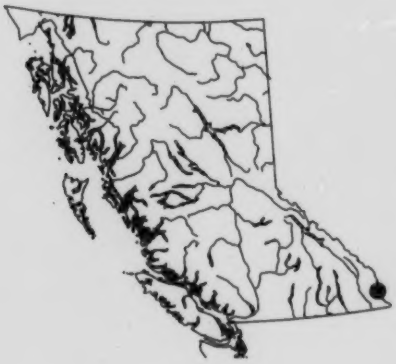
arctic plantain; Siberian plantain

Habitat/Range: Mesic meadows, grassy slopes and roadsides in the montane and subalpine zones (MSdk); rare in SE BC, known only from the Crowsnest Pass area; amphiberingian, N to AK, YT and NT, disjunct in SW AB and MT; E Asia.

Global/Provincial Rank: G4G5 S2S3 Status: Blue

Notes: This species is frequent just N of 60°N in YT but has yet to be collected in N BC.



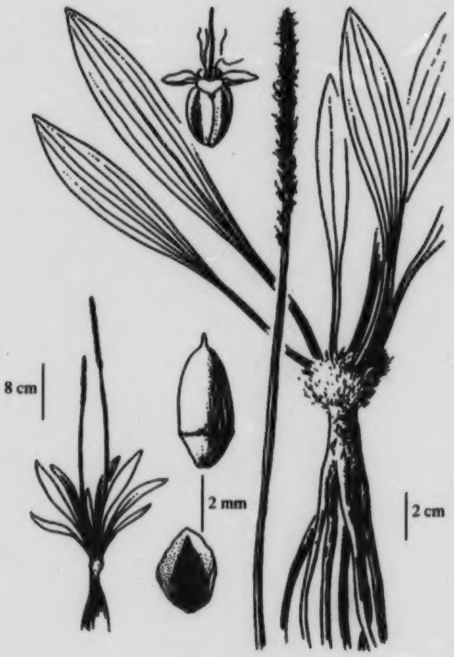


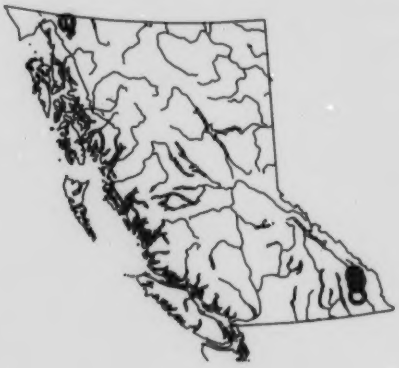
Plantago eriopoda Torr.

alkali plantain; saline plantain

Habitat/Range: Wet to moist alkaline meadows and salt marshes in the montane zone (BWBSdk1, ESSFdk, IDFdm2, IDFun, MSdk); rare in NW and SE BC; N to YT and NT, E to PQ and S to NB, CO, CA and MX.

Global/Provincial Rank: G5 S1 Status: Red



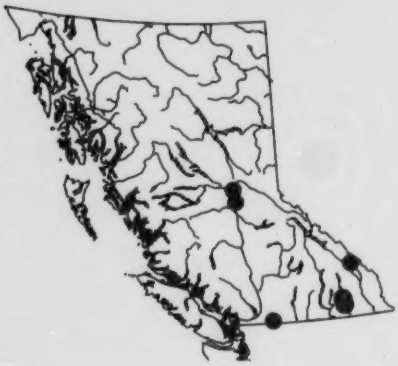


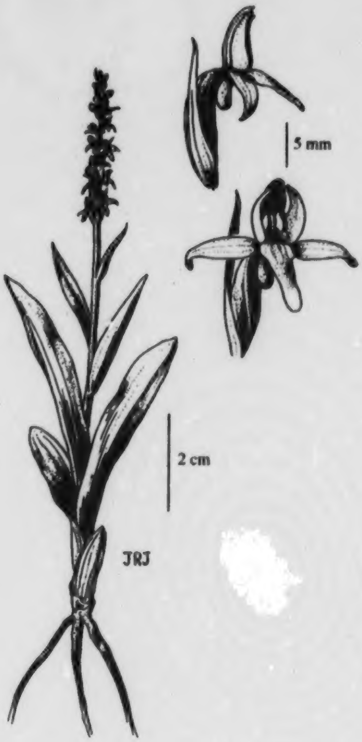
Platanthera dilatata **(Pursh) Lindl. *ex* Beck var. *albiflora* (Cham.) Ledeb.** (*Habenaria dilatata* var. *albiflora* [Cham.] Correll)

fragrant white rein orchid; fragrant white bog orchid

Habitat/Range: Wet meadows, seepage slopes, bogs, stream and lake margins and open forests in the lowland, montane and subalpine zones (CDFmm, ESSFmw, ICHdw, ICHxw, SBSdw1, SBSmh); rare in S BC; N to AK, E to NF and S to CO, UT, ID and OR.

Global/Provincial Rank: G5T? S2S3 Status: Blue





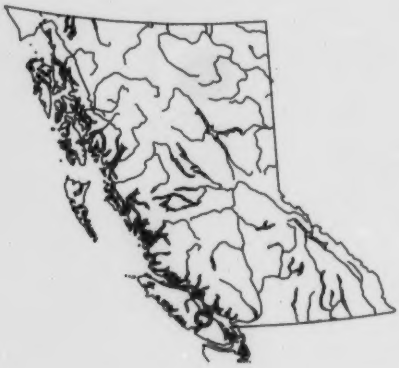
Pleuricospora fimbriolata **A. Gray**

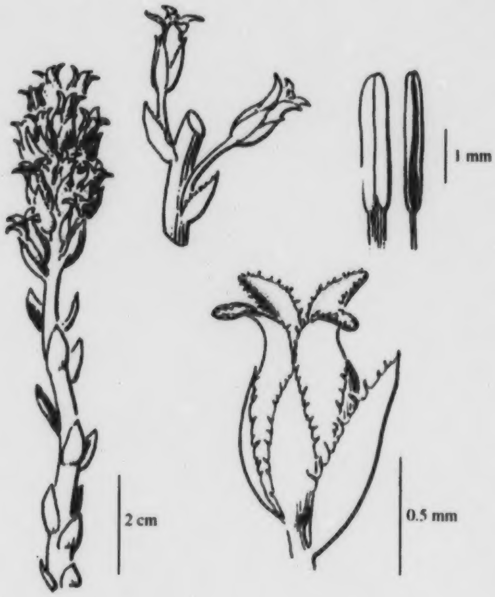
fringed pinesap

Habitat/Range: Moist forests in the lowland zone (CWHxm1); rare on Vancouver Island, known only from Horne Lake; S to NW CA.

Global/Provincial Rank: G4 SH Status: Red

Notes: The only collection of this species was made in 1916.



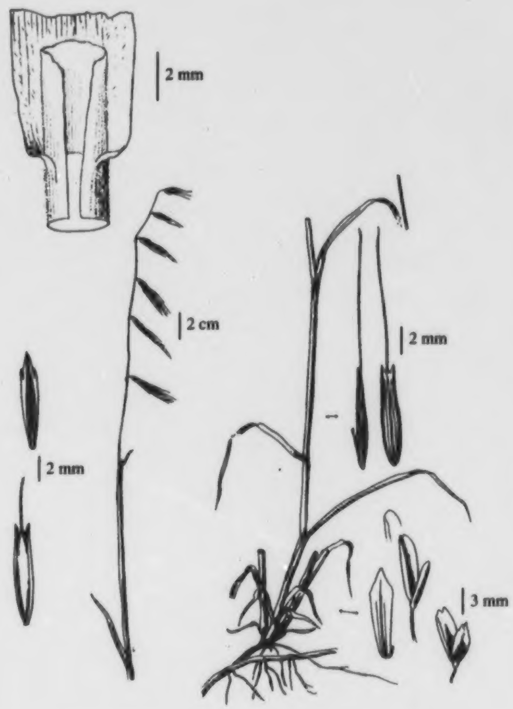


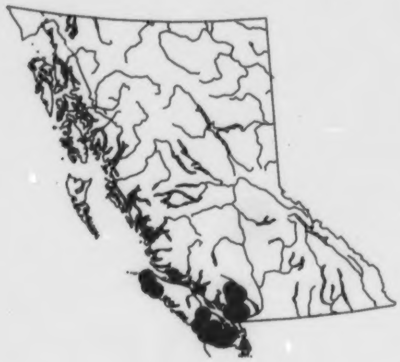
***Pleuropogon refractus* (A. Gray) Benth.** (*Lophochlaena refracta* A. Gray)

nodding semaphoregrass

Habitat/Range: Bogs, streambanks, lakeshores, wet meadows and forests in the lowland and montane zones (CDFmm, CWHdm, CWHms1, CWHxm2, CWHvh1, CWHvm1, CWHvm2, MHmm1); rare on Vancouver Island and the adjacent lower mainland; S to CA.

Global/Provincial Rank: G4 S3 Status: Blue





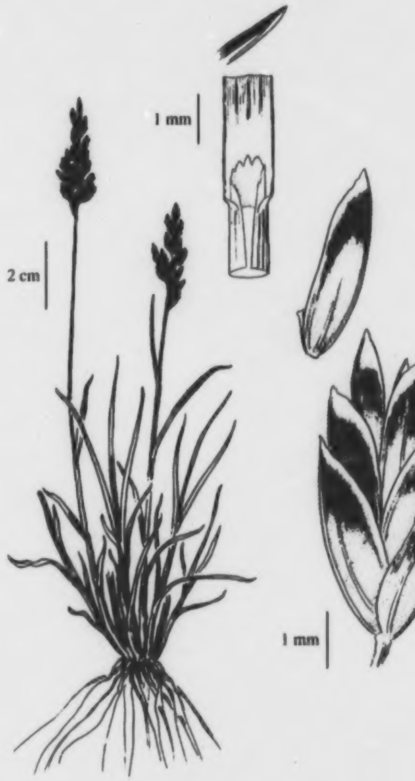
***Poa abbreviata* R. Br. ssp. *pattersonii* (Vasey) A. Love, D. Love & Kapoor** (*Poa pattersonii* Vasey, *Poa abbreviata* ssp. *jordalii* [A.E. Porsild] Hult., *Poa jordalii* A.E. Porsild)

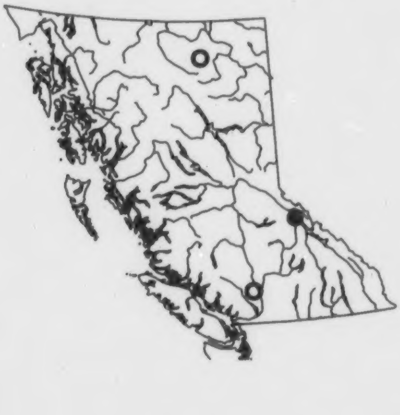
abbreviated bluegrass

Habitat/Range: Mesic to moist fellfields and rocky slopes (often on limestone) in the alpine zone (AT); rare in SC, EC and NE BC, known recently only from Canoe Mountain, Valemount area; amphiberingian, N to AK, YT and NT, E to AB and S to CO, UT, NV and CA; Greenland, E Asia.

Global/Provincial Rank: G5T5 S2S3 Status: Blue

Notes: This taxon was last collected in 1943 at Summit Pass.



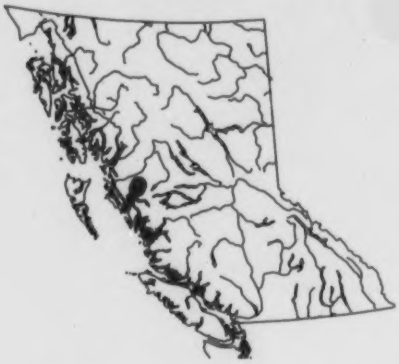


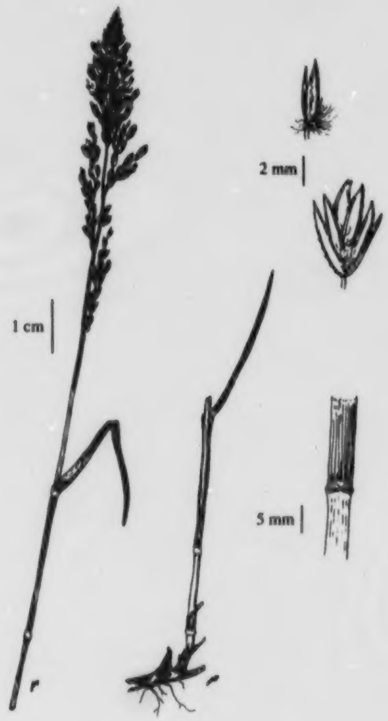
***Poa eminens* J. Presl.** (*Arctopoa eminens* [J. Presl.] Probat.)

eminent bluegrass

Habitat/Range: Coastal salt marshes and gravelly beaches in the lowland zone (CWHvm); rare in coastal BC, known only from Kitimat and Douglas Channel; amphiberingian, N to AK and NT, disjunct E to ON, PQ and NF; E Asia.

Global/Provincial Rank: G5 S2S3 Status: Blue



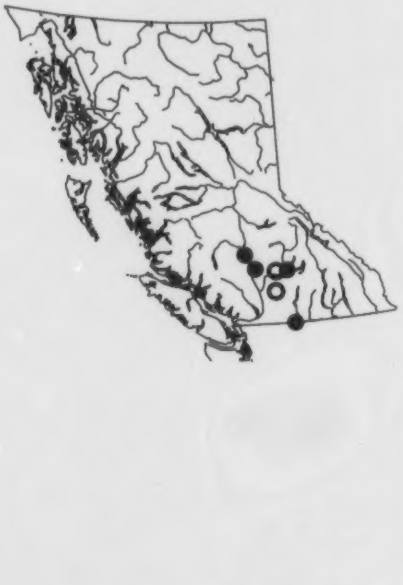


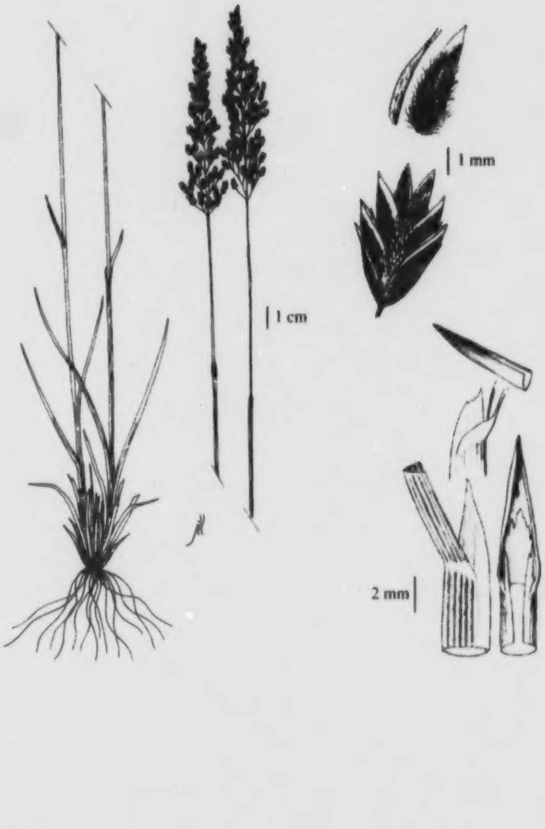
Poa fendleriana* (Steud.) Vasey ssp. *fendleriana (*Eragrostis fendleriana* Steud.)

mutton grass; Fendler's bluegrass

Habitat/Range: Dry grasslands and ridges in the steppe and lower montane zones (BGxh3, BGxw1, ESSFdcp2, IDFxw); rare in SC BC; E to MB and S to TX, NM, AZ and CA.

Global/Provincial Rank: G5T5 S1 Status: Red





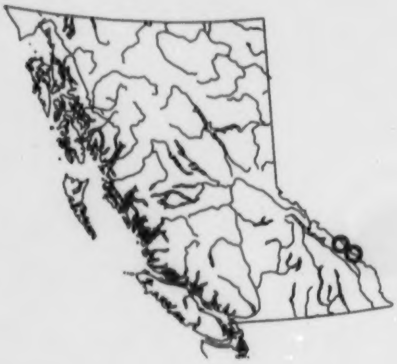
***Poa laxa* Haenke ssp. *banffiana* Soreng**

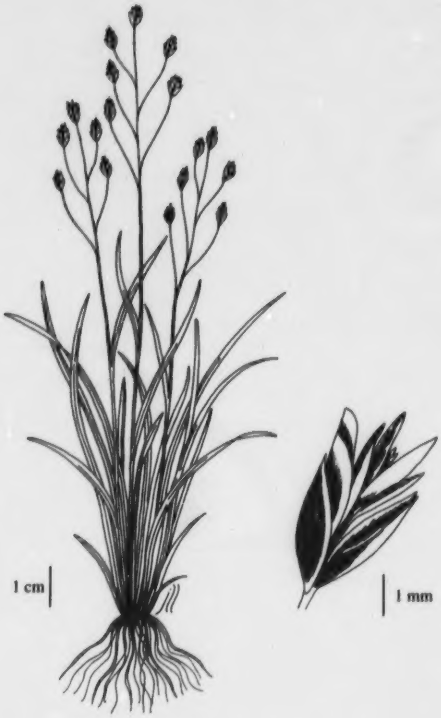
Banff bluegrass

Habitat/Range: Moist meadows and ridges in the alpine zone (AT); rare in SE BC, known only from Simpson Pass and Valley of the Ten Peaks; S to WY and OR.

Global/Provincial Rank: G5?T1 SH Status: Red

Notes: This species has not been collected since 1943.





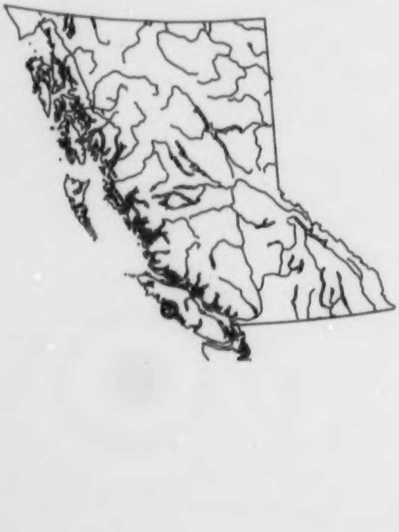
***Poa nervosa* (Hook.) Vasey (*Festuca nervosa* Hook.)**

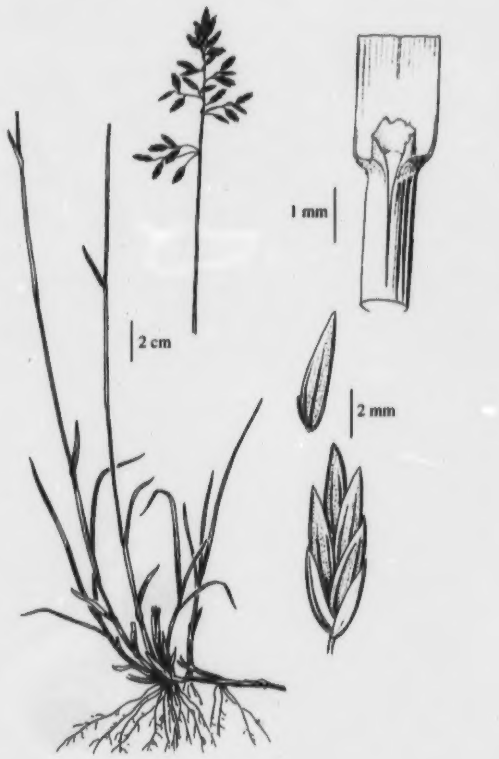
coastal bluegrass

Habitat/Range: Moist forest slopes and mossy ledges along streams in the lowland and montane zones (CWHvh1); rare in SW BC, known only from Nootka Sound; S to NW OR.

Global/Provincial Rank: G3? SH Status: Red

Notes: The only BC collection of this species was made by Dr. J. Scouler at Nootka Sound and later (1840) named by W.J. Hooker. It is possible that this collection was made further south (i.e., Oregon?) during Dr. Scouler's voyage.





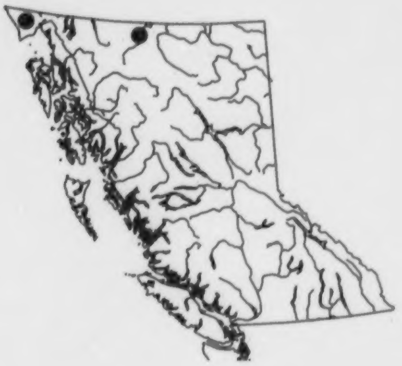
Poa pseudoabbreviata **Rosh.** (*Poa brachyanthera* Hult.)

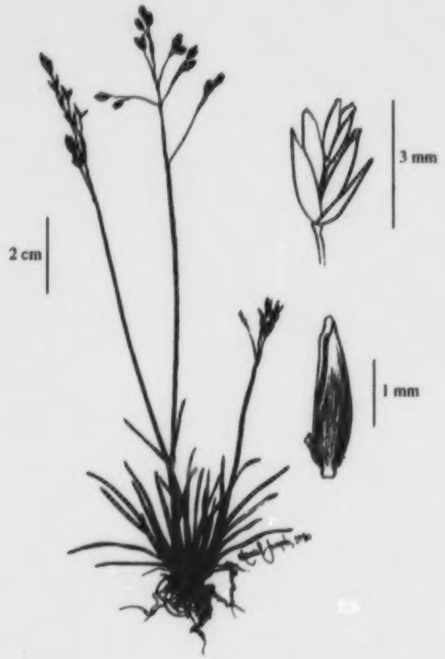
polar bluegrass

Habitat/Range: Dry, open ridges from the subalpine to alpine zones (AT, SWBun); rare in NW BC, known only from Horseranch Range and Tkope River, Haines Triangle; N to AK, YT and NT.

Global/Provincial Rank: G4 S2S3 Status: Blue

Notes: This species was first collected in 1980 but was not correctly identified until recently (Douglas *et al.* 1994).



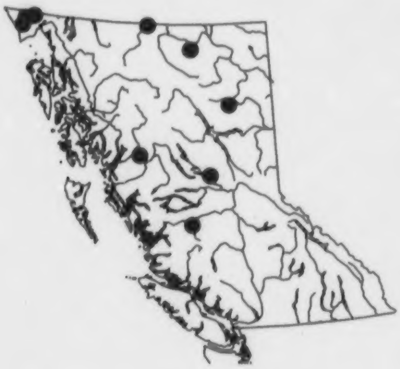


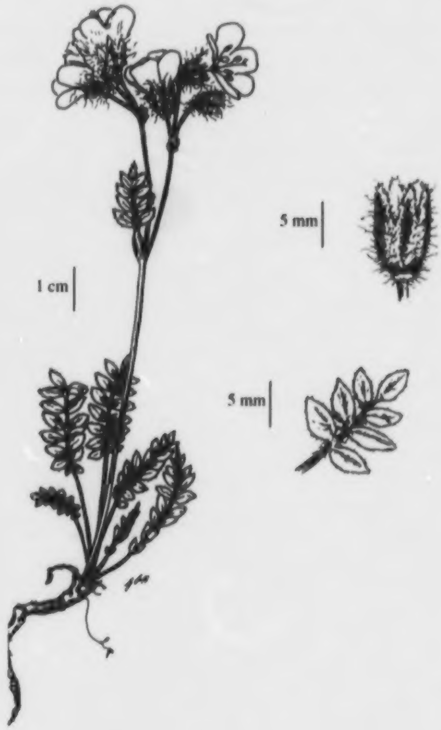
Polemonium boreale **Adams**

northern Jacob's-ladder

Habitat/Range: Mesic to dry meadows, tundra, scree slopes and rock outcrops in the montane to alpine zones (AT, BWBSdk1, BWBSdk2, BWBSvk, ESSFmv1); rare in and E of the Coast-Cascade Mountains in BC, north of 52° N; circumpolar, N to AK, YT and NT; E Greenland, Scandinavia, N Asia.

Global/Provincial Rank: G5 S2S3 Status: Blue





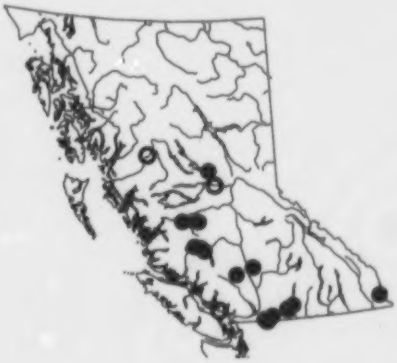
***Polemonium elegans* Greene**

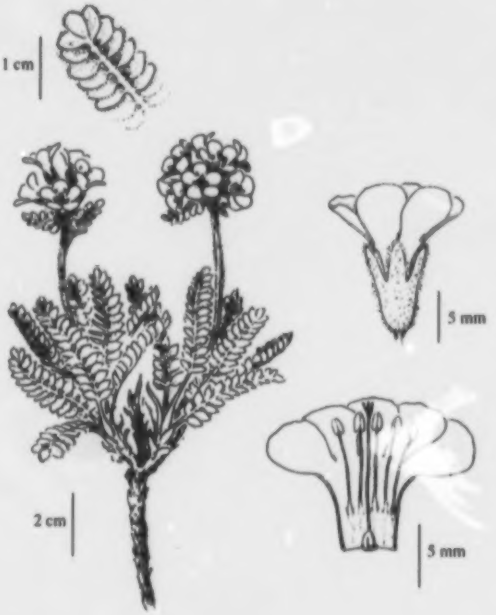
elegant Jacob's-ladder; elegant polemonium

Habitat/Range: Dry cliffs and scree slopes in the subalpine and alpine zones (AT, ESSFdkp, ESSFdv, ESSFmv1, ESSFxc, ESSFxcp, IDFdw, IDFww, MSxk, SBSdw3); rare in S BC south of 56° N, mostly in the Coast-Cascade Mountains; S to N CA.

Global/Provincial Rank: G4 S2S3 Status: Blue

Notes: For colour illustration see Taylor and Douglas (1995).



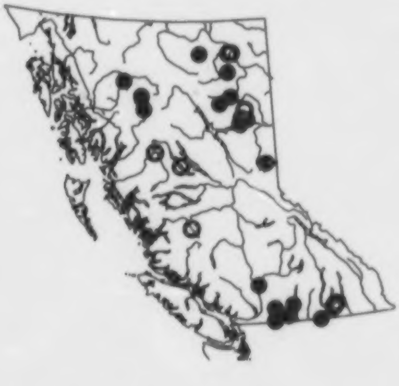


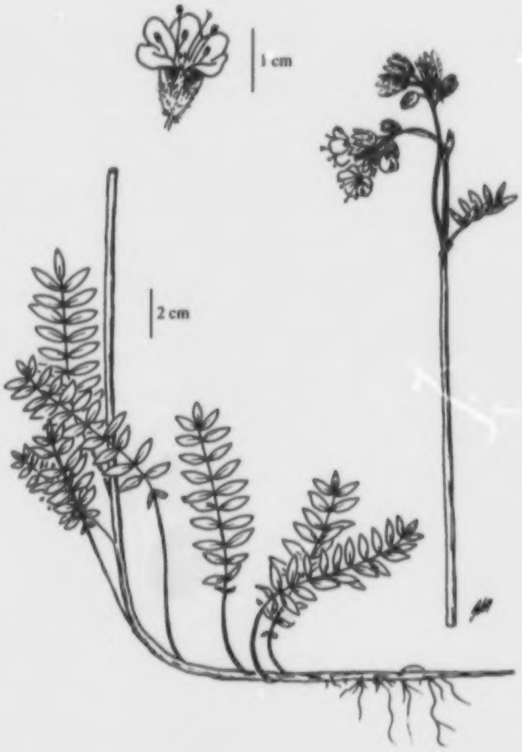
Polemonium occidentale* Greene ssp. *occidentale (*P. caeruleum* L. ssp. *occidentale* [Greene] Davids. *P. caeruleum* ssp. *amygdalinum* [Wherry] Munz)

western Jacob's-ladder

Habitat/Range: Wet to moist swamps, streambanks, meadows and thickets in the steppe to subalpine zones (BGxh1, BWBSmw1, BWBSmw2, BWBSwk2, ESSFmv2, ESSFmw, ESSFwc4, ICHdw, ICHmc2, IDFdk2, IDFxh1, MSdm2, SBPSxc, SBSmc2, SWBun); rare, scattered throughout BC in and east of the Coast-Cascade Mountains; E to AB and S to MN, CO and CA.

Global/Provincial Rank: G5?T5? S2S3 Status: Blue



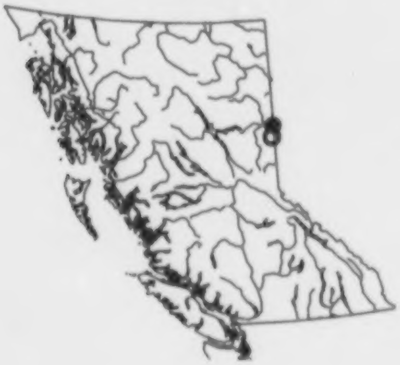


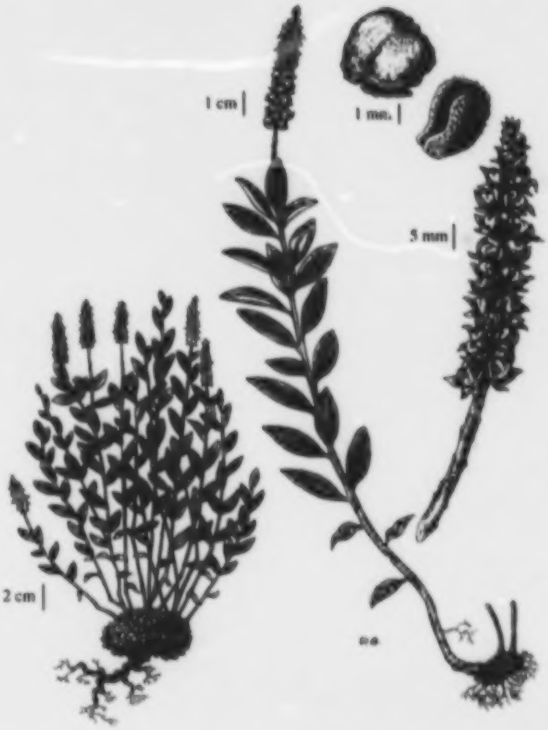
Polygala senega **L.**

Seneca-snakeroot

Habitat/Range: Moist to mesic grassy slopes in the montane zone (BWBSmw1); rare in NE BC, known only from Pouce Coupé; E to NB and S to AR, TN, GA and SD.

Global/Provincial Rank: G4G5 S1 Status: Red





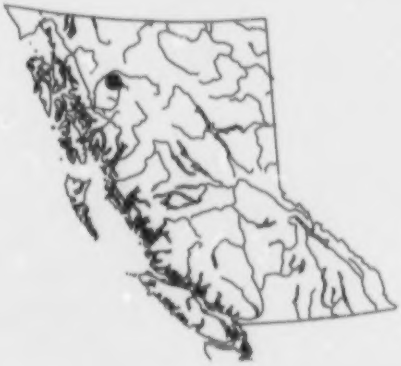
Polygonum bistorta **L. ssp.** ***plumosum*** **(Small) Hult.**

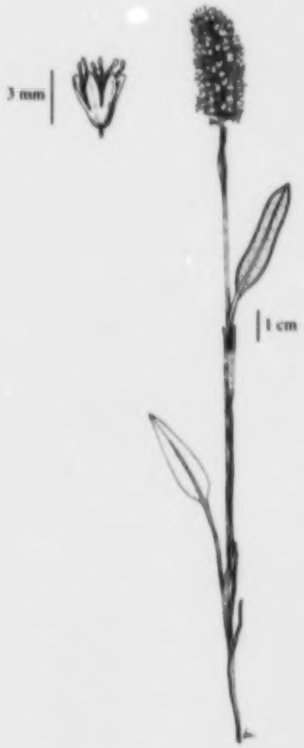
(*Bistorta plumosa* [Small] D. Love, *P. plumosum* Small)

meadow bistort

Habitat/Range: Moist meadows and streambanks in the alpine zone (AT); rare in NW BC, known only from Mt. Edziza; circumpolar, N to AK, YT and NT; Eurasia.

Global/Provincial Rank: G5T5 S2S3 Status: Blue



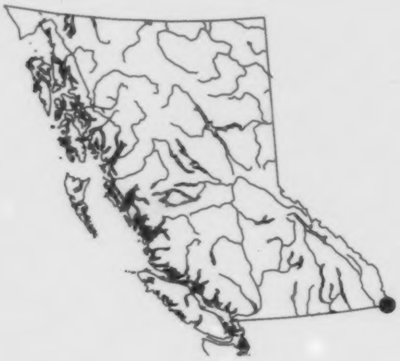


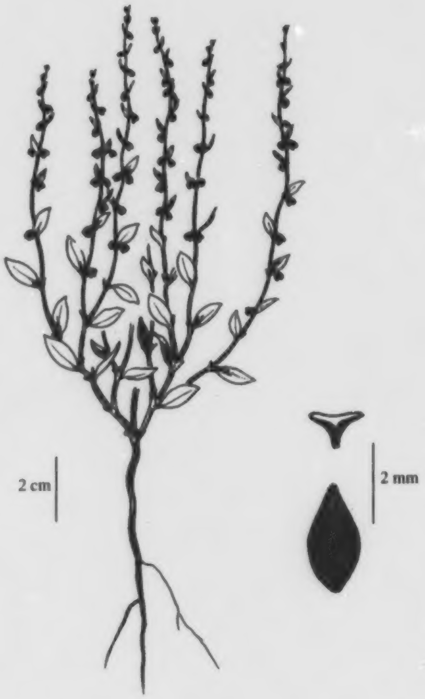
Polygonum douglasii **Greene ssp.** ***austiniae*** **(Greene) E. Murray** (*P. austiniae* Greene)

Austin's knotweed

Habitat/Range: Moist to dry grasslands, shrublands, rocky slopes and forest openings in the montane zone (MSdk); rare in SE BC, known only from Sage Creek and possibly South Kootenay Pass (the latter collection at CAN may actually be from AB); S to WY and NE CA.

Global/Provincial Rank: G5T4 S2S3 Status: Blue



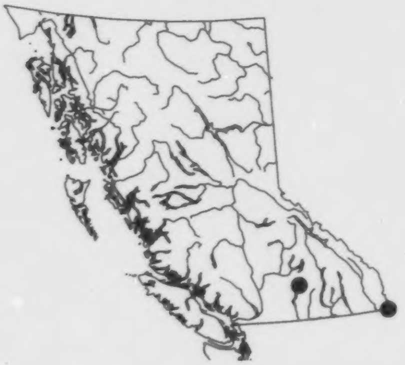


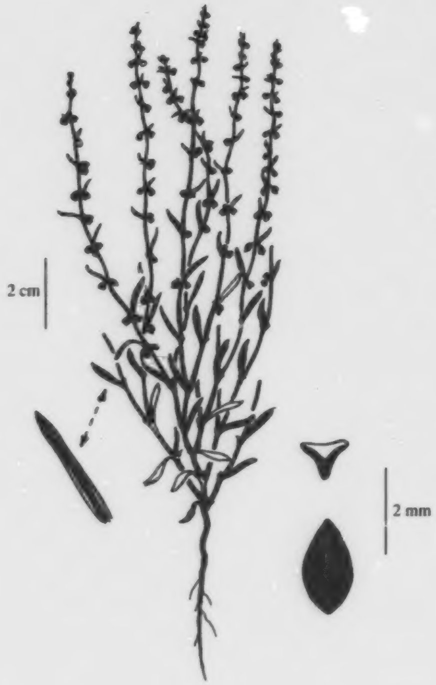
Polygonum douglasii **Greene ssp.** ***engelmannii*** **(Greene) Kartesz & Gandhi** (*P. engelmannii*)

Engelmann's knotweed

Habitat/Range: Moist to dry grasslands, shrublands, rocky slopes and forest openings in the steppe and montane zones (IDFxh1a, MSdk); rare in SC and SE BC; E to SW AB and S to WY and CO.

Global/Provincial Rank: G5T? S2S3 Status: Blue



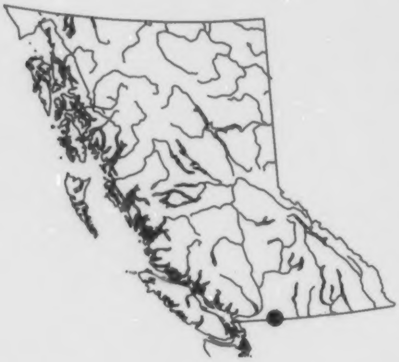


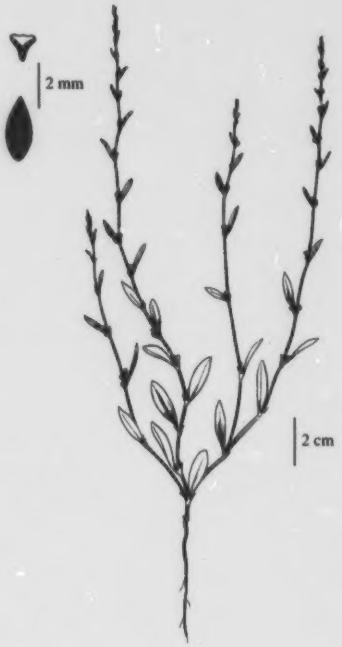
***Polygonum douglasii* Greene ssp. *johnstonii* (Munz) Hickman** (*P. sawatchense* Small)

Sawatch knotweed

Habitat/Range: Moist to dry rocky slopes, forest openings and roadsides in the montane zone (ESSFmw); rare in SW BC, known only from Manning Provincial Park; S to ND, ID, MT and CO.

Global/Provincial Rank: G5T4? S1 Status: Red



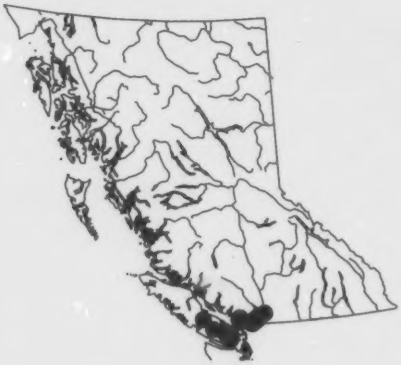


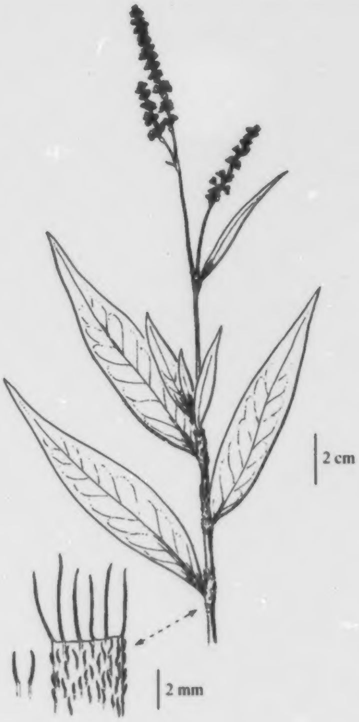
***Polygonum hydropiperoides* Michx.** (*Persicaria hydropiperoides* [Michx.] Small)

water-pepper

Habitat/Range: Wet swampy sites, shorelines and shallow water in the lowland zone (CDFmm, CWHdm, CWHds1, CWHxm1, CWHxm2); rare in SW BC; E to NB and NS and S to FL, TX and MX; S. America.

Global/Provincial Rank: G5 S2S3 Status: Blue



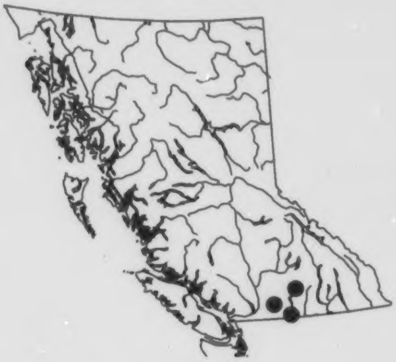


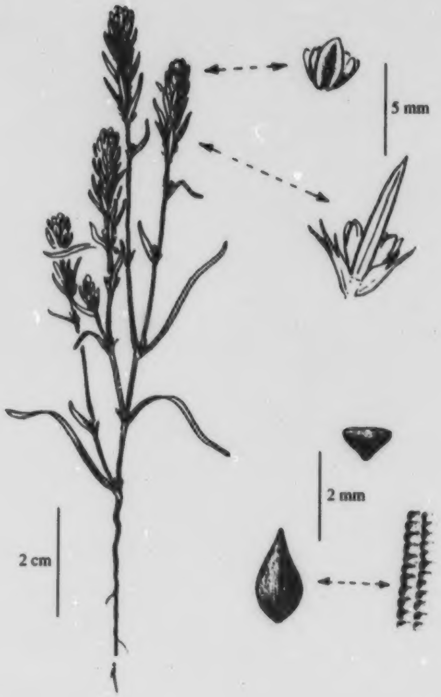
Polygonum polygaloides **Meisn. ssp.** ***confertiflorum*** **(Piper) Hickman** (*P. confertiflorum* Piper, *P. watsonii* Small)

close-flowered knotweed

Habitat/Range: Wet vernal pools and ditches to dry roadsides and meadows in the montane and subalpine zones (ICHmk1, MSxk); rare in SC BC; E to SW AB and S to CO, AZ and CA.

Global/Provincial Rank: G4G5T3T4 S1 Status: Red



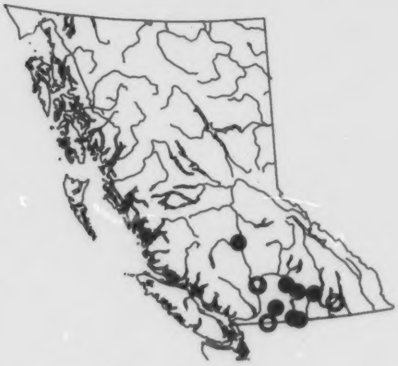


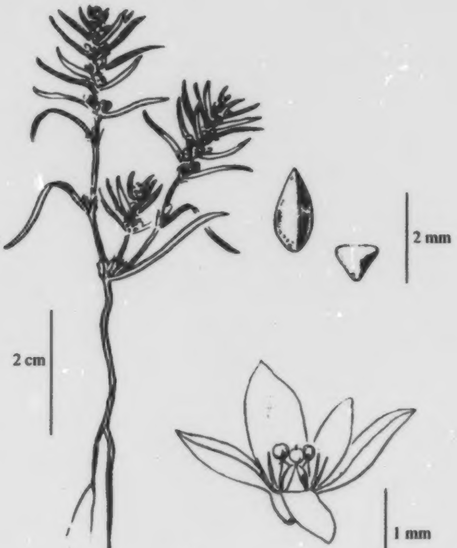
Polygonum polygaloides **Meisn. ssp.** ***kelloggii*** **(Greene) Hickman** (*P. kelloggii* Greene)

Kellogg's knotweed

Habitat/Range: Wet vernal pools and ditches to dry roadsides and meadows in the montane and subalpine zones (ESSFwc4, ICHdw, ICHmk1, IDFdk1, IDFww, IDFxh1, IDFxm, MSdm2, MSxk); rare in S BC; E to SW AB and S to CO, AZ and CA.

Global/Provincial Rank: G4G5T3T5 S2S3 Status: Blue



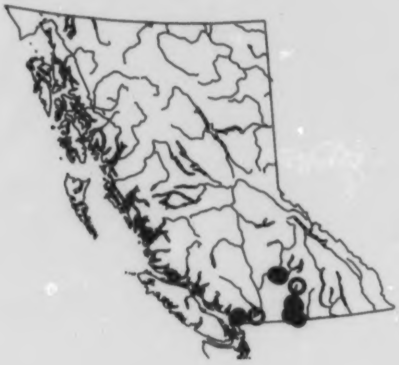


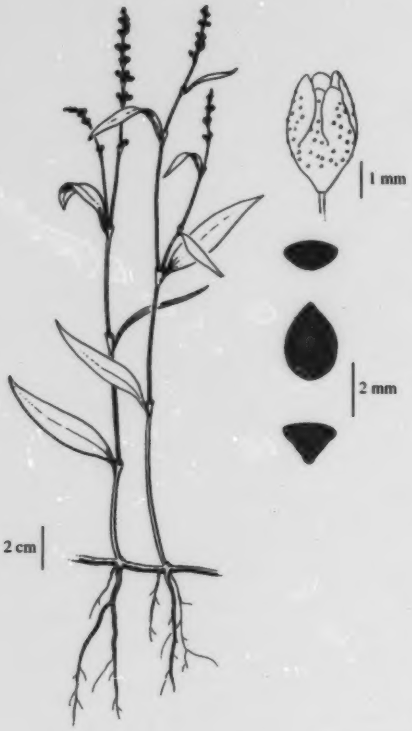
Polygonum punctatum **Ell.** (*Persicaria punctata* [Ell.] Small)

dotted smartweed

Habitat/Range: Swamps and wet meadows in the lowland and steppe zones (BGxh1, BGxh2, CWHdm); rare in SW (lower Fraser Valley) and SC BC; E to NB and NS and S to FL, TX, MX and CA; S Asia.

Global/Provincial Rank: G5 S2S3 Status: Blue



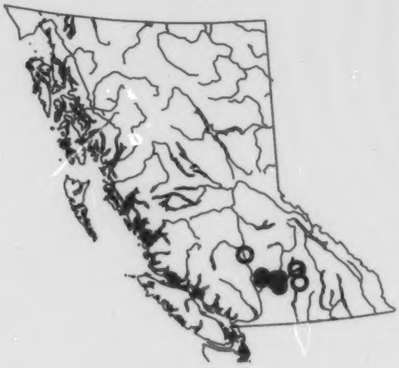


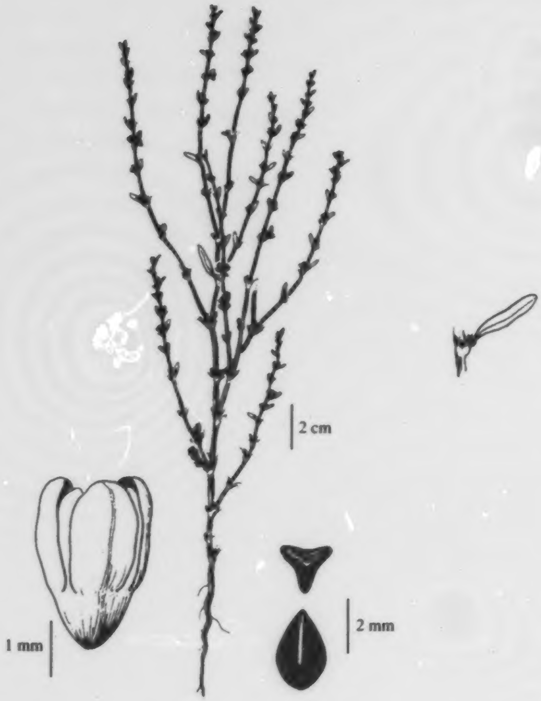
Polygonum ramosissimum **Michx. var. *ramosissimum***

bushy knotweed

Habitat/Range: Moist to dry shorelines, ditches and waste places in the steppe and montane zones (BGxh2, IDFmw2, IDFxh1, MSxk, PPxh2); rare in SC BC; E to NS and NB, and S to MO, PA, TX, NM and CA.

Global/Provincial Rank: G5T5 S1 Status: Red





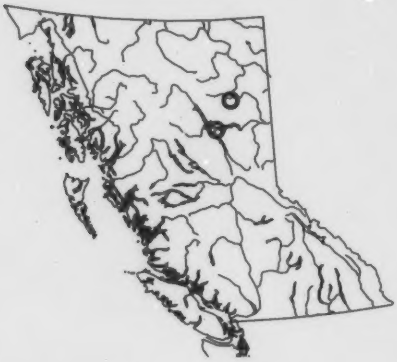
***Polypodium sibiricum* Siplivinskij** (*P. virginianum* L.)

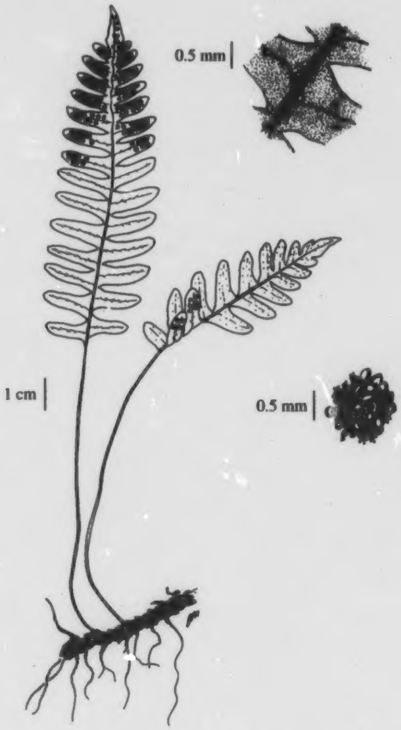
Siberian polypody

Habitat/Range: Dry to mesic rocks in the montane zone (BWBSmw1, SBSmk2); rare in C and NE BC, known only from Mount Selwyn (Williston Lake) and Beatton River (Fort St. John); amphiberingian, N to AK, YT and NT, E to PQ; E Asia, Greenland.

Global/Provincial Rank: G5? SH Status: Red

Notes: This species was last collected in 1943 at Beatton River.



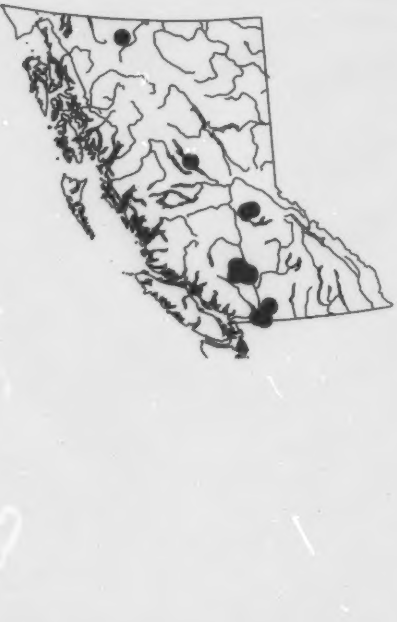


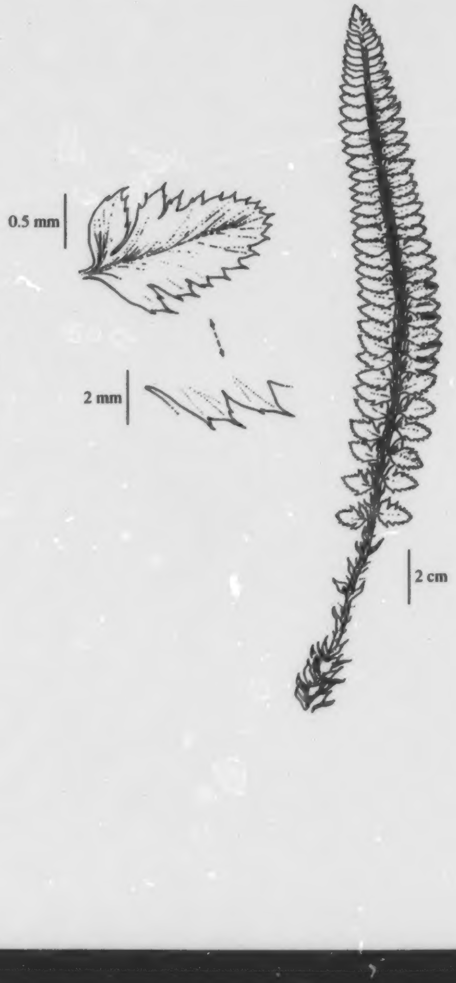
***Polystichum kruckebergii* W.H. Wagner**

Kruckeberg's holly fern

Habitat/Range: Dry to mesic ultramafic rock outcrops and talus in the montane and subalpine zones (ESSFdv, ESSFmw, ESSFwk1, MSdc1, MSun, PPxh2, SBSdk, SWBun); rare in SW, C and N BC; S to MT, UT, ID and CA.

Global/Provincial Rank: G4 S2S3 Status: Blue





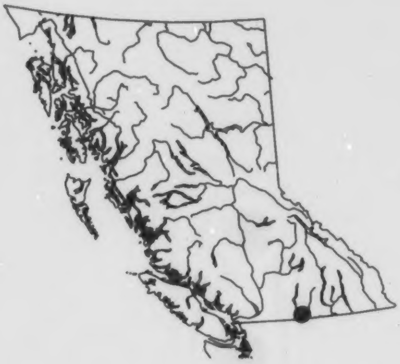
Polystichum lemmonii **Underw.** (*P. mohrioides auct. non* [Bory] K.B. Presl, *P. mohrioides* [Bory] K.B. Presl var. *lemmonii* [Underw.] Fern.)

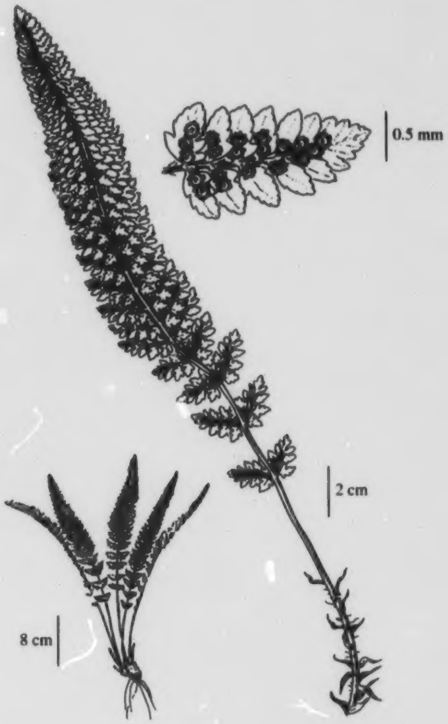
Lemmon's holly fern

Habitat/Range: Dry to mesic, ultramafic rock outcrops in the montane zone (ESSFdcp1); rare in SC BC, known only from the Mt. Baldy area; S to ID and CA.

Global/Provincial Rank: G4 S1 Status: Red

Notes: For colour illustration see Taylor and Douglas (1995).



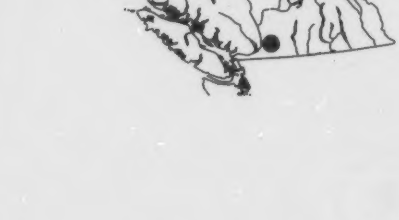


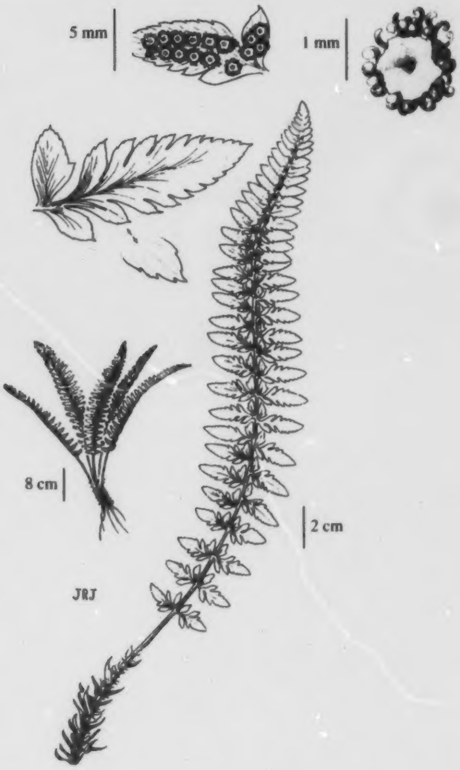
Polystichum scopulinum **(D.C. Eaton) Maxon**

mountain holly fern

Habitat/Range: Dry to mesic, shady, ultramafic rock outcrops of the montane zone (ESSFmw, IDFdk2, MSun); rare in SC BC, known only from the Tulameen River valley; disjunct E to PQ and S to CO, AZ, and CA.

Global/Provincial Rank: G5 S1 Status: Red



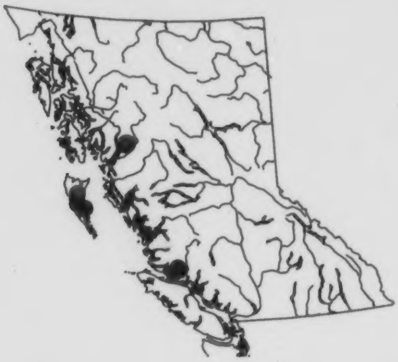


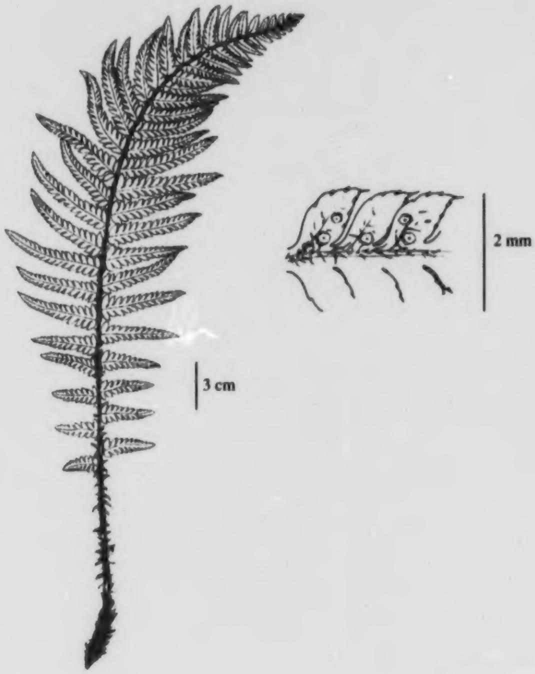
Polystichum setigerum **(K.B. Presl) K.B. Presl** (*P. braunii* ssp. *alaskense* [Maxon] Calder & Taylor)

Alaska holly fern

Habitat/Range: Moist to mesic shady forests, rock outcrops and lava flows in the lowland and montane zones (CWHvm1, CWHwh1, CWHws1); rare in coastal BC north of 50° N; N to AK.

Global/Provincial Rank: G2G3 S2 Status: Red



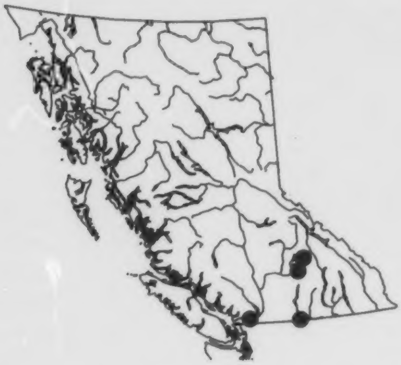


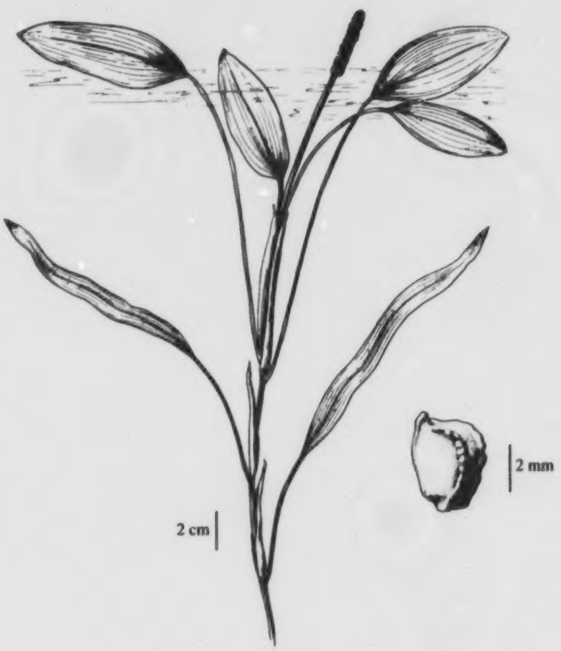
Potamogeton nodosus **Poir.**

long-leaved pondweed

Habitat/Range: Lakes and sloughs in the lowland zone (BGxh1, CWHdm, ICHmw3, IDFmw2); rare in S BC; cosmopolitan with disjunctions, E to PQ and NB and S to ME, MA, PA, NC, FL, MS, TX, NM, AZ and CA; Eurasia, Mexico, S America, Africa.

Global/Provincial Rank: G5 S1 Status: Red



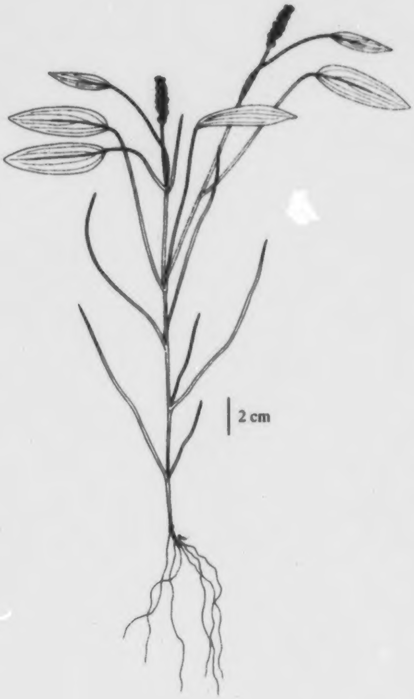


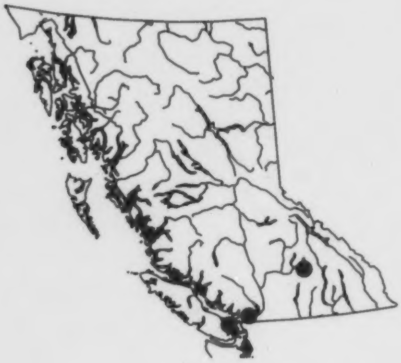
***Potamogeton oakesianus* Robbins**

Oakes' pondweed

Habitat/Range: Lakes and ponds in the lowland and montane zones (CDFmm, CWHvm1, ICHmw2); rare in SW and SC BC; disjunct E to MB, E to NF and S to ME, MA, PA, SC, TN, WI, MN and MT.

Global/Provincial Rank: G4 S2S3 Status: Blue



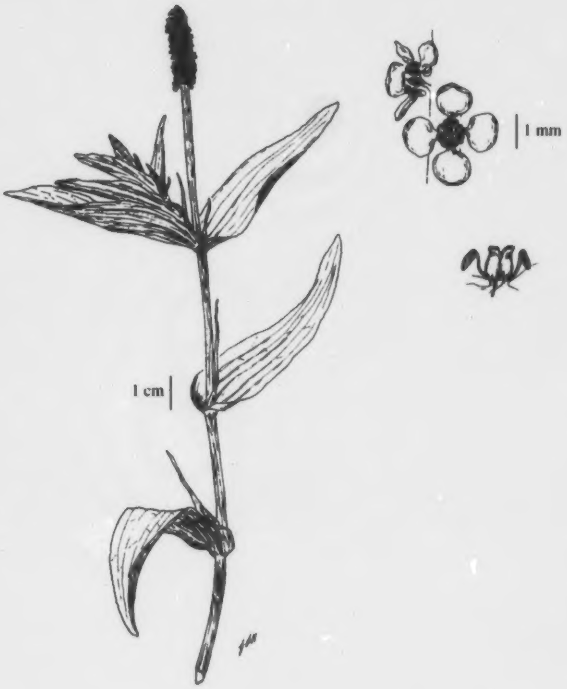


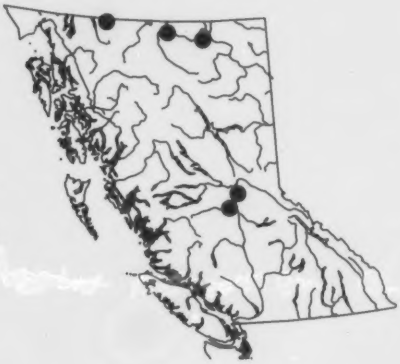
***Potamogeton perfoliatus* L.**

perfoliate pondweed

Habitat/Range: Lakes in the montane zone (BWBSdk1, BWBSdk2); rare in BC north of 53° N; circumpolar, disjunct E to ON, PQ and NF and S to ME, MA, PA, NC, FL, AL, MI and LA; Eurasia.

Global/Provincial Rank: G5 S2S3 Status: Blue



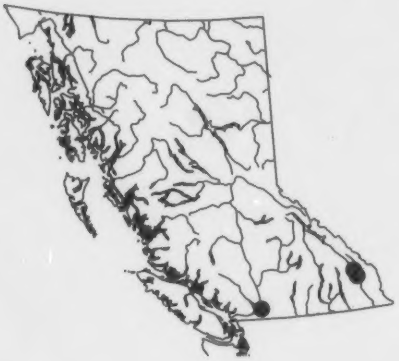


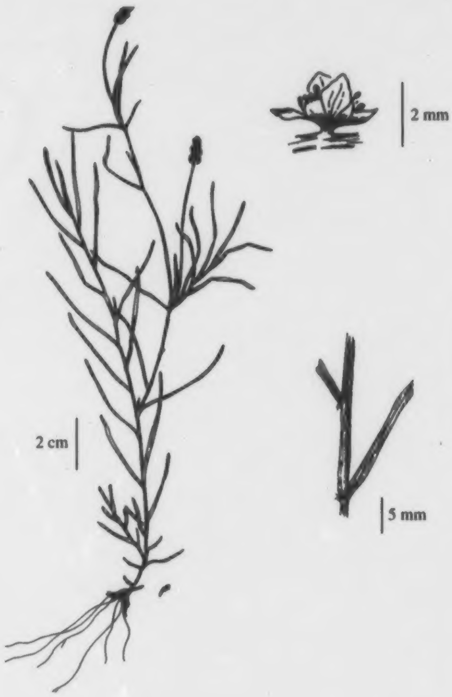
Potamogeton strictifolius A. Benn.

stiff-leaved pondweed

Habitat/Range: Lakes in the lowland and montane zones (CWHds1, IDFdm2, IDFun); rare in S BC; N to YT and NT, E to NF and S to NH, NY, VA, IN, WI, MN, NE, WY, UT and ID.

Global/Provincial Rank: G5 S2S3 Status: Blue





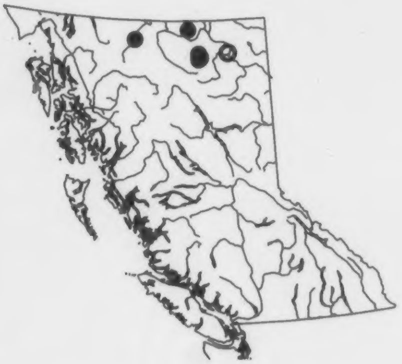
Potentilla biflora Willd. _ex_ Schlecht.

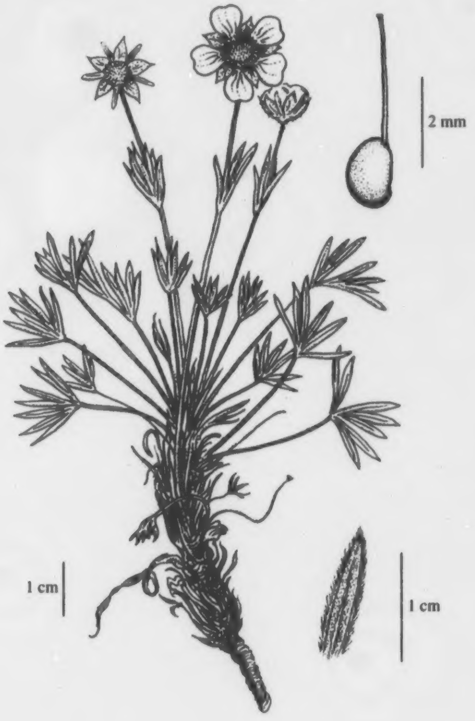
two-flowered cinquefoil

Habitat/Range: Dry to mesic rocky slopes in the subalpine and alpine zones (AT, SWBmk); rare in N BC; amphiberingian, N to AK and NT; Asia.

Global/Provincial Rank: G4G5 S2S3 Status: Blue

Notes: For colour illustration see White and Williams (1974).





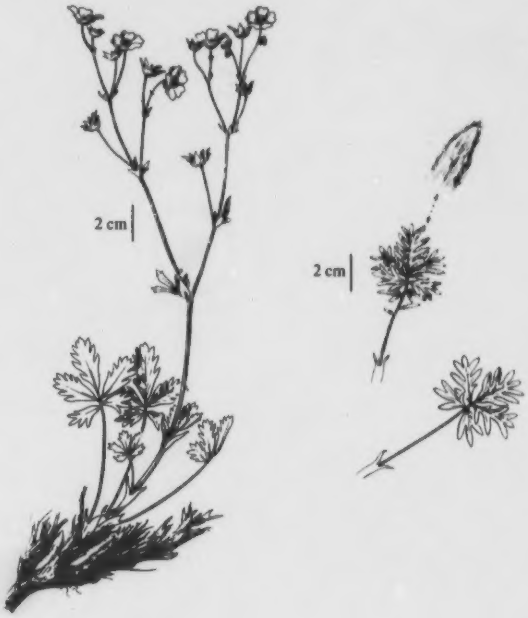
***Potentilla diversifolia* Lehm. var. *perdissecta* (Rydb.) C.L. Hitchc.**

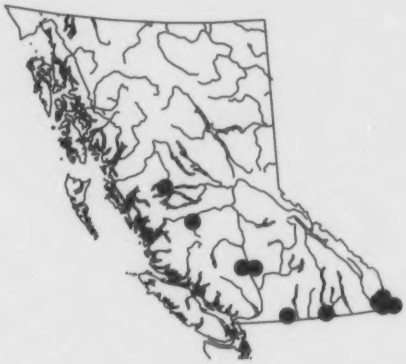
diverse-leaved cinquefoil; blue-leaved cinquefoil

Habitat/Range: Mesic to dry meadows and rock outcrops in the montane to alpine zones (AT, ESSFdk, ESSFdkp, IDFdk3, MSdc1); rare in SC and SE BC; E to AB and S to N WA.

Global/Provincial Rank: G5T4 S2S3 Status: Blue

Notes: This variety appears to hybridize freely with var. *diversifolia* in SE BC and numerous intermediates occur.



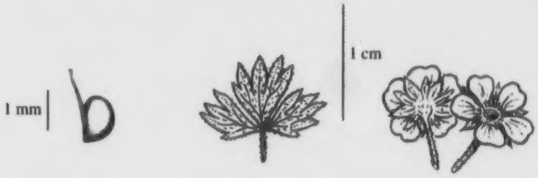


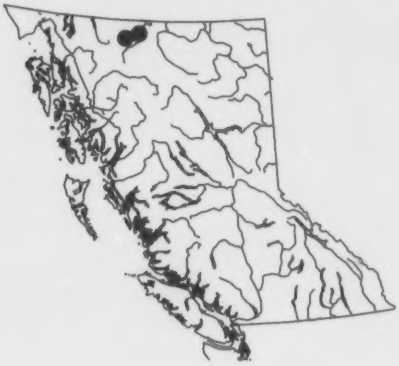
***Potentilla elegans* Cham. & Schlecht.**

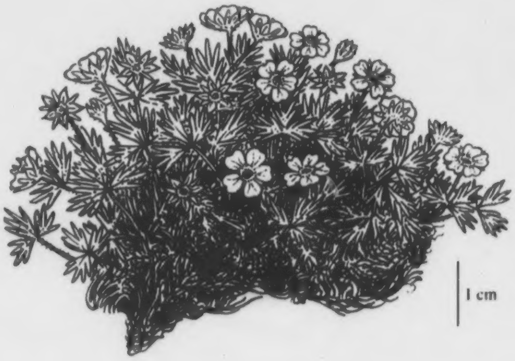
elegant cinquefoil

Habitat/Range: Dry rocky slopes and crevices in the alpine zone (AT); rare in N BC, known only from the Cassiar area and the Horseranch Range; amphiberingian, N to AK and NT; E Asia.

Global/Provincial Rank: G4 S2S3 Status: Blue





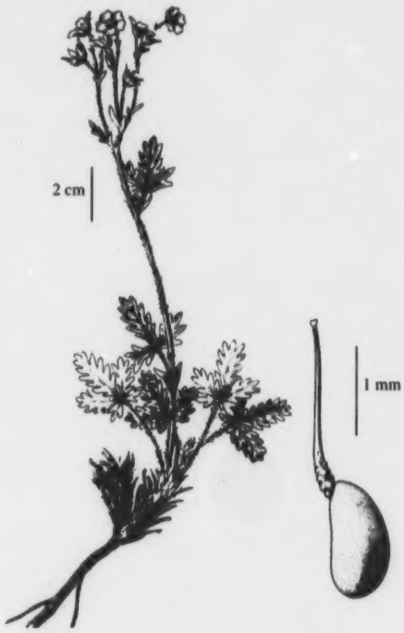


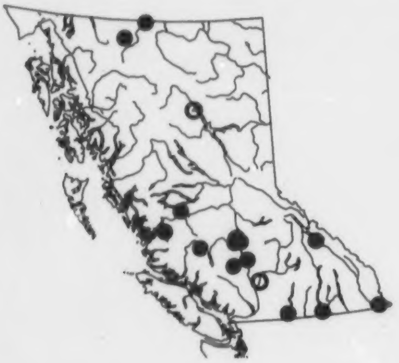
Potentilla nivea L. var. _pentaphylla_ Lehm.
(*P. quinquefolia* [Rydb.] Rydb.)

five-leaved cinquefoil

Habitat/Range: Gravelly benches in the steppe to alpine zones (BGxh1, BGxh2, BGxw2, BWBSdk1, BWBSdk2, ESSFdkp, IDFdk3, IDFdk4, IDFdw, MHmm1, MSdc1, SWBun); rare in BC in and east of the Coast-Cascade Mountains; N to YT, E to MB and S to CO, UT and OR.

Global/Provincial Rank: G5T4 S2S3 Status: Blue



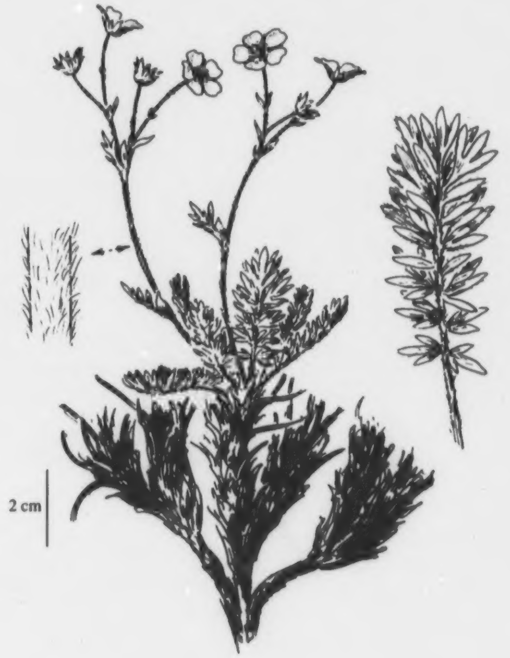


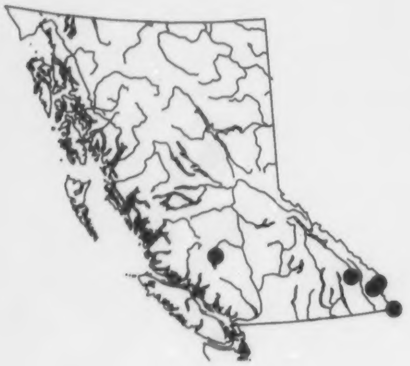
Potentilla ovina Macoun _ex_ J.M. Macoun var. _ovina_

sheep cinquefoil

Habitat/Range: Moist meadows to dry, open, rocky slopes in the subalpine and alpine zones (AT, ESSFdk, ESSFdkp, ESSFxv1); rare in SC (Chilcotin) and extreme SE BC; E to SK and S to CO, NM and CA.

Global/Provincial Rank: G5?T5? S2S3 Status: Blue



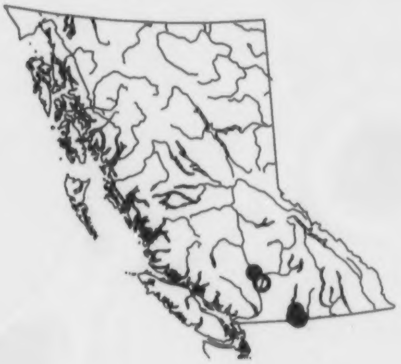


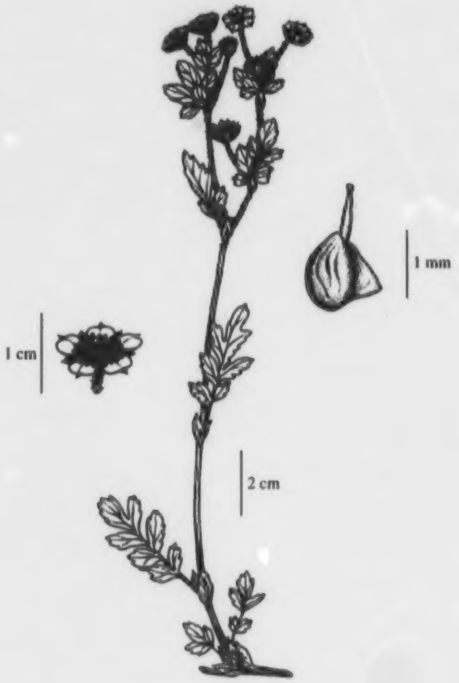
Potentilla paradoxa **Nutt.**

bushy cinquefoil

Habitat/Range: Moist meadows, streambanks and lakeshores in the steppe and montane zones (BGxh1, BGxh2, IDFxh2); rare in SC BC; E to S ON, S to NY, KS, NM, MX and WA.

Global/Provincial Rank: G5 S1 Status: Red





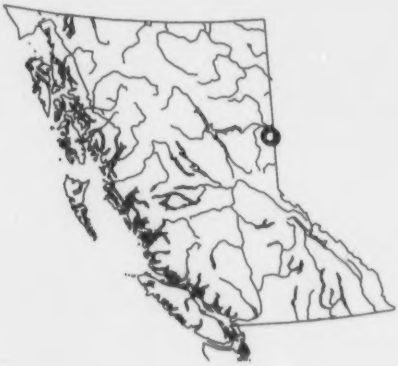
Prenanthes racemosa **Michx. ssp.** ***multiflora*** **Cronq.**

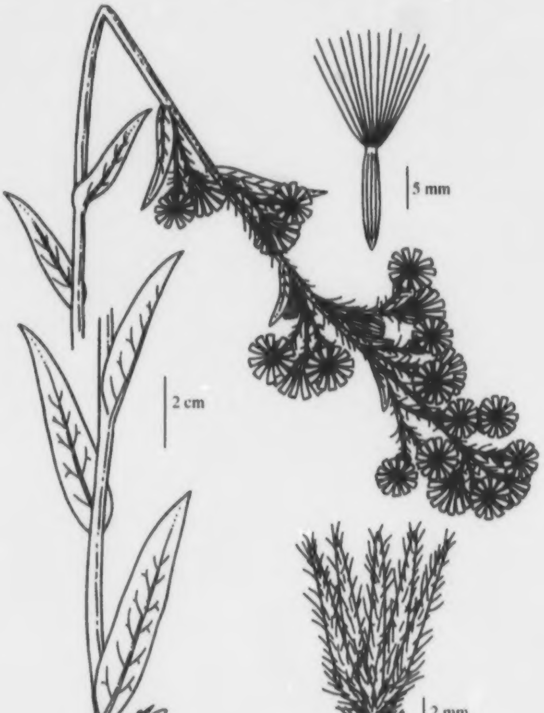
purple rattlesnake-root

Habitat/Range: Dry grassy slopes in the montane zone (BWBSmw1); rare in NE BC, known only from Dawson Creek and Pouce Coupé; E to PQ, S to ME, IA, WY and CO.

Global/Provincial Rank: G5T4? SH Status: Red

Notes: This species was last collected in 1946 at Dawson Creek.



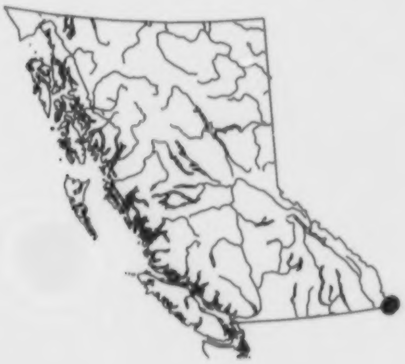


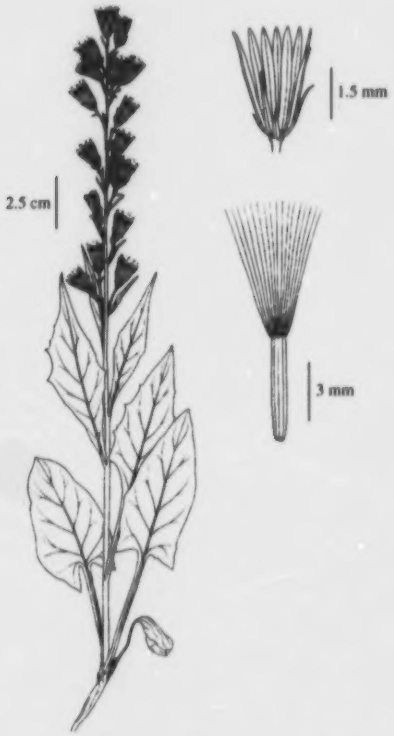
Prenanthes sagittata **(A. Gray) A. Nels.**

arrow-leaved rattlesnake-root

Habitat/Range: Moist to mesic roadsides, forests and streambanks in the montane zone (MSdk); rare in SE BC, known only from Kishinena Valley and Akamina Creek; E to AB and S to N ID and MT.

Global/Provincial Rank: G3G4 S1 Status: Red





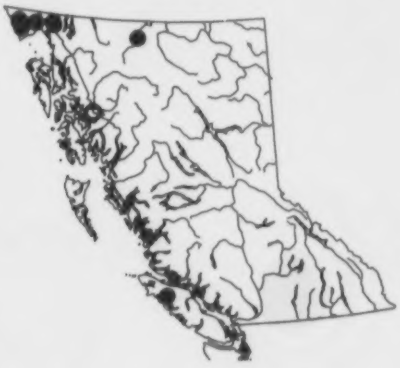
Primula cuneifolia **Ledeb. ssp.** ***saxifragifolia*** **(Lehm.) W.W. Smith & Forrest**

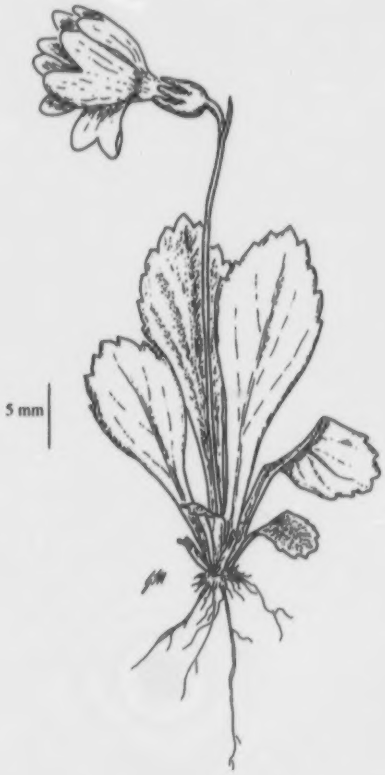
wedge-leaf primrose

Habitat/Range: Moist to wet meadows in the subalpine and alpine zones (AT, SWBdk, SWBvk); amphiberingian, rare in W and NW BC and on NW Vancouver Island; N to AK; E Asia.

Global/Provincial Rank: G5T? S2S3 Status: Blue

Notes: For colour illustration see White and Williams (1974).





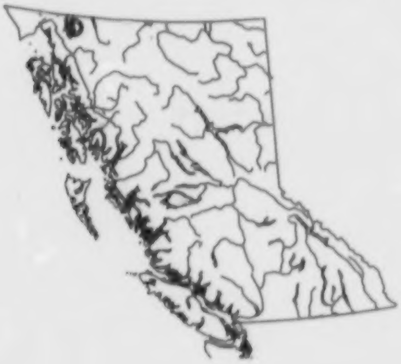
***Primula nutans* Georgi** (*P. sibirica* Jacq., *P. clusiana auct. non* Tausch)

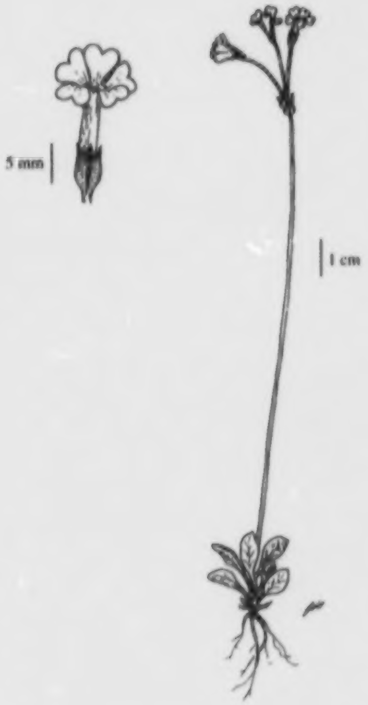
Siberian primrose

Habitat/Range: Hotsprings and moist beaches in the montane to subalpine zones (BWBSdk1); rare in NW BC; circumpolar, N to AK and YT; Eurasia.

Global/Provincial Rank: G5 SH Status: Red

Notes: This species was last collected at Atlin in 1914.



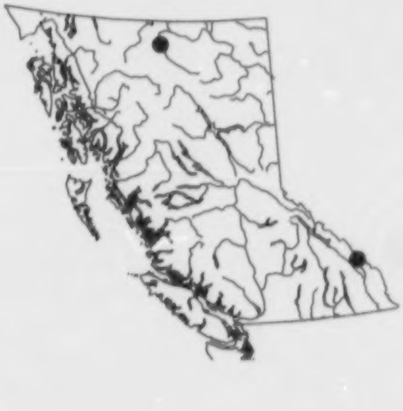


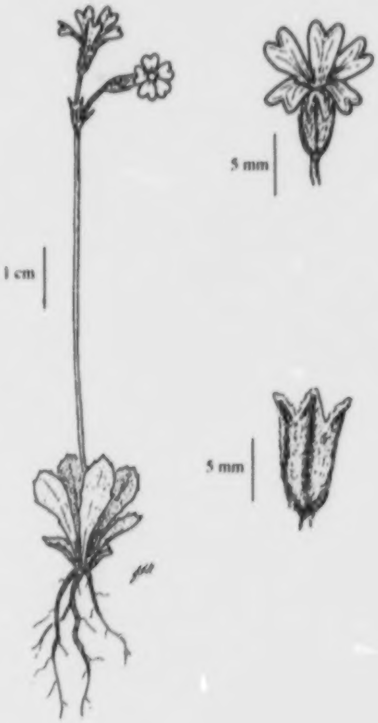
***Primula stricta* Hornem.**

upright primrose

Habitat/Range: Moist to wet river banks, fens and sometimes saline wetlands in the montane to subalpine zones (BWBSdk2, MSdk); rare in SE and NE BC, known only from Kootenay National Park and the Turnagain River area; circumpolar, N to AK, YT and NT, E to NF; Greenland, Iceland and Europe.

Global/Provincial Rank: G4 S2S3 Status: Blue





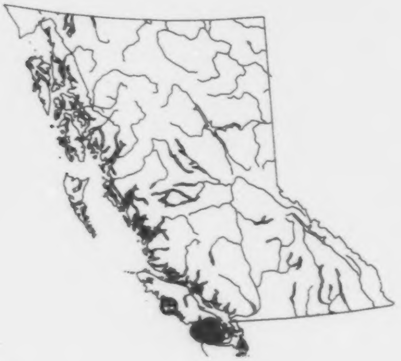
Prosartes smithii **(Hook.) Utech, Shinwari & Kawano**
(*Disporum smithii* [Hook.] Piper)

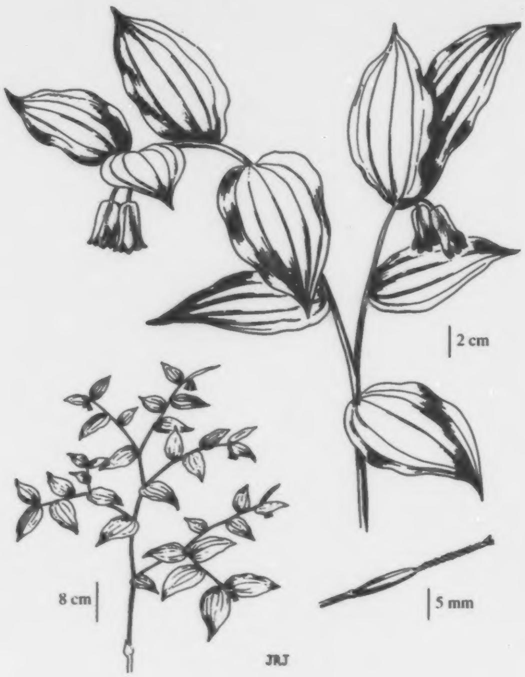
Smith's fairybells

Habitat/Range: Moist forests and streambanks in the lowland zone (CWHmm1, CWHvh1, CWHvm1, CWHvm2, CWHxm2); rare on SW Vancouver Island; S to CA.

Global/Provincial Rank: G5 S2S3 Status: Blue

Notes: For colour illustration see Clark (1976).





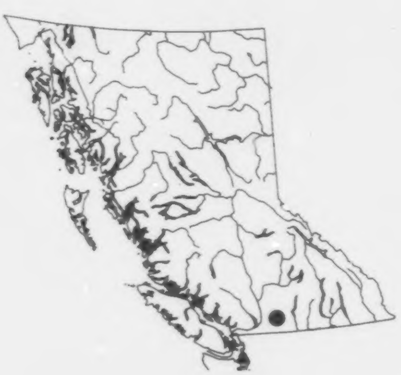
Psilocarphus brevissimus **Nutt. var.** ***brevissimus***
(*P. oreganus* Nutt. var. *brevissimus* [Nutt.] Jeps.)

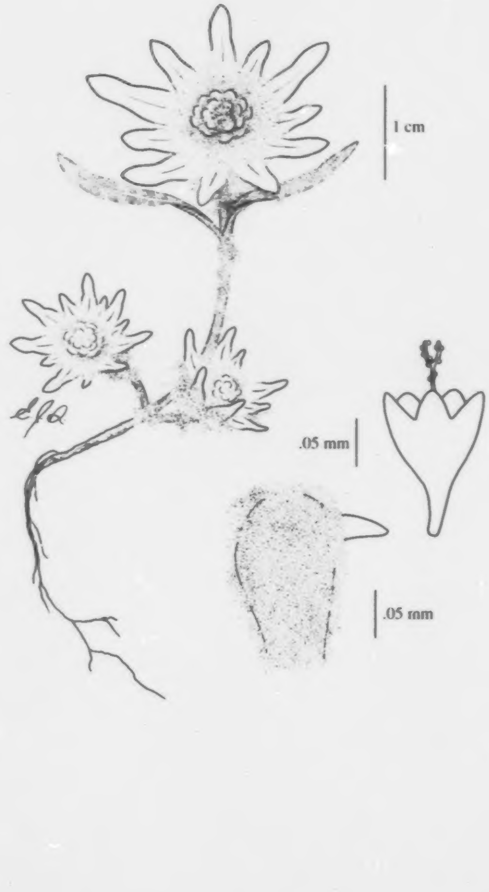
dwarf woolly-heads

Habitat/Range: Moist vernal meadows in the montane zone (IDFxh1); rare in SC BC, known only from the Princeton area; S to MT, UT and MX; Chile.

Global/Provincial Rank: G4T? S1 Status: Red

Notes: This species was first collected in BC by F. Lomer in 1996.



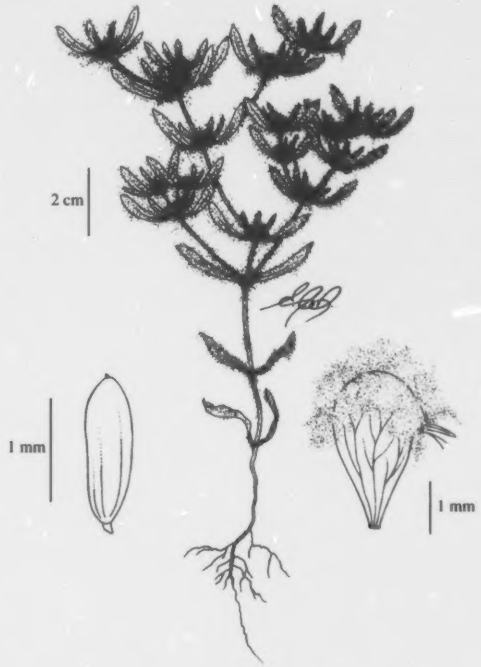


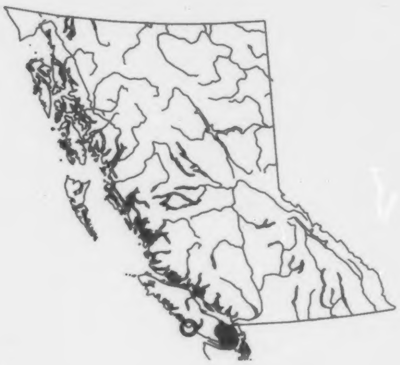
Psilocarphus elatior **(A. Gray) A. Gray** (*P. oreganus* Nutt. var. *elatior* A. Gray)

tall woolly-heads

Habitat/Range: Moist vernal meadows and muddy pathsides in the lowland zone (CDFmm, CWHvh1); rare on S Vancouver Island; E to AB and SK and S to ID and N CA.

Global/Provincial Rank: G4 S1 Status: Red



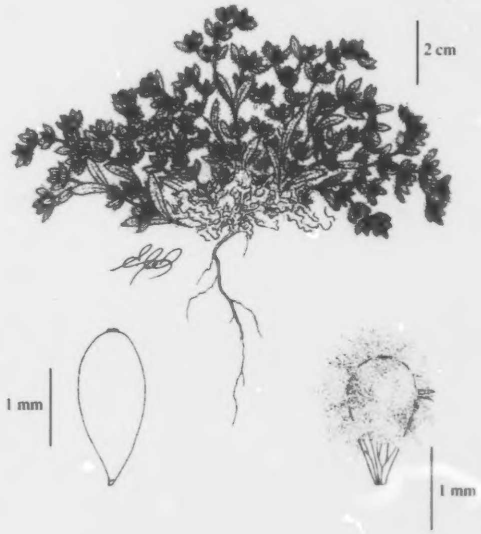


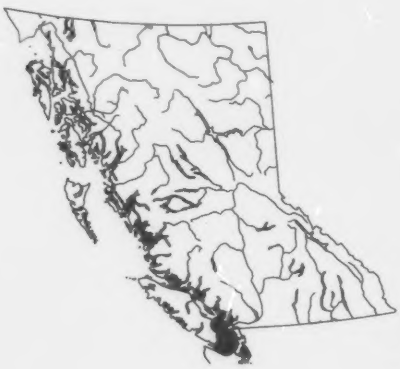
Psilocarphus tenellus **Nutt. var.** ***tenellus***

slender woolly-heads

Habitat/Range: Moist vernal pathsides and roadsides in the lowland zone (CDFmm, CWHxm1); rare in SW BC, known from S Vancouver Island and Saltspring Island; S to ID, OR and MX.

Global/Provincial Rank: G4T4 S2 Status: Red



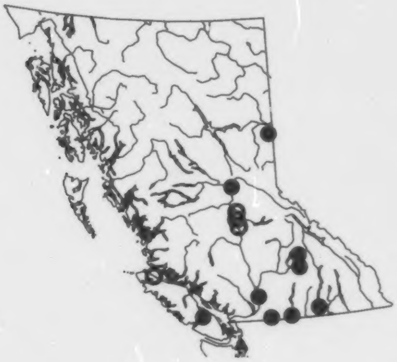


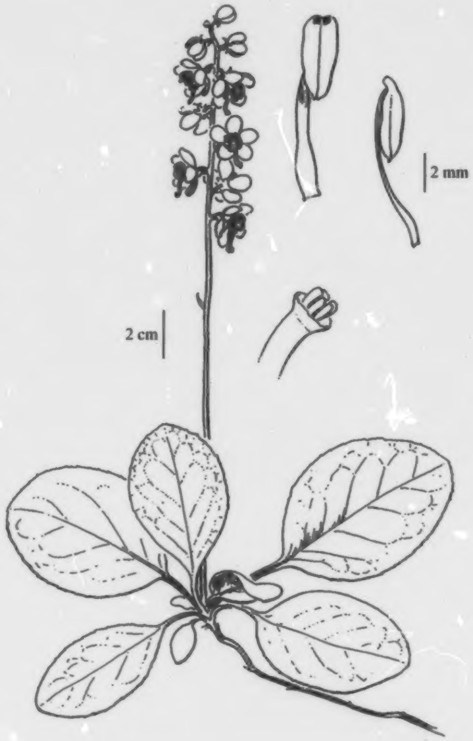
Pyrola elliptica **Nutt.**

white wintergreen; shinleaf

Habitat/Range: Dry to moist forests in the montane zone (BWBSmw1, CWHvm1, ESSFmw, ICHmw3, IDFww, IDFxm, MHmm1, MSxk, SBSdw2, SBSmh); rare in SW and C BC; E to NF, and S to NM, SD, and PA; Japan.

Global/Provincial Rank: G5 S2S3 Status: Blue



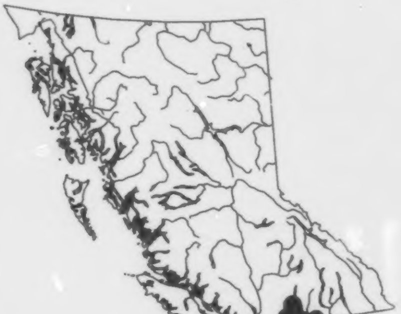


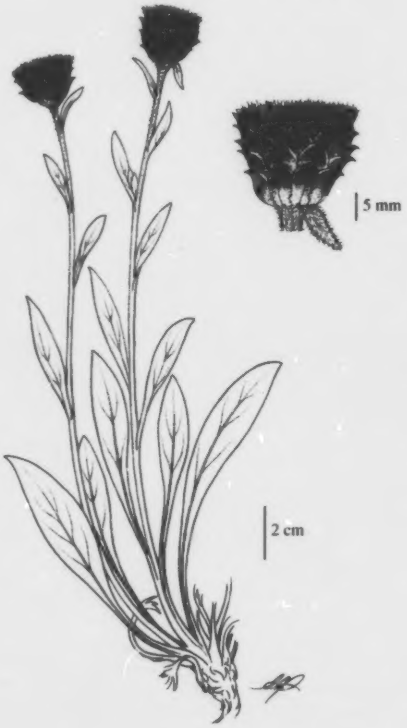
Pyrrocoma carthamoides **Hook. var.** ***carthamoides***
(*Haplopappus carthamoides* [Hook.] A. Gray ssp. *carthamoides*)

Columbian goldenweed

Habitat/Range: Dry grasslands and rocky slopes in the steppe and montane zones (BGxh1, IDFdk1, IDFdm1, IDFxh1, MSxk, PPdh1, PPxh1); rare in extreme SC BC; S to MT, WY and N CA.

Global/Provincial Rank: G4G5T4 S2 Status: Red



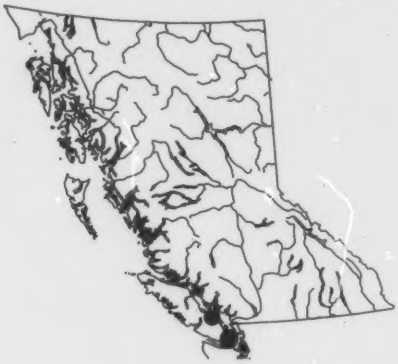


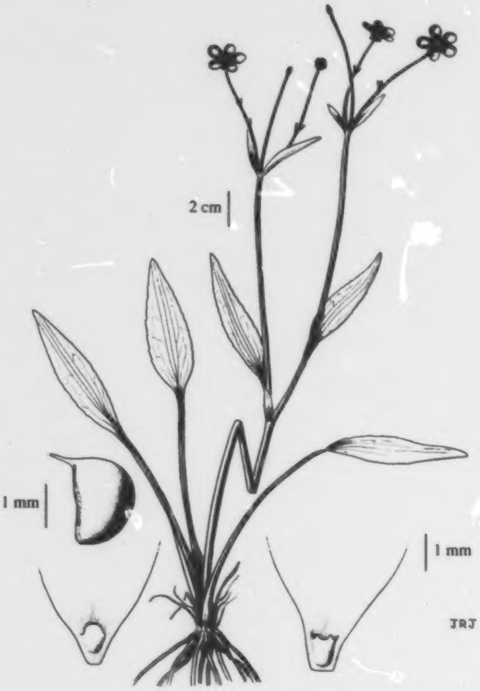
Ranunculus alismifolius Geyer *ex* Benth. var. *alismifolius*

water-plantain buttercup

Habitat/Range: Ponds, shorelines and moist meadows in the lowland zone (CDFmm); rare in SW BC, known only from Victoria and Ballenas Island; S to ID, MT and CA.

Global/Provincial Rank: G5T5 S1 Status: Red





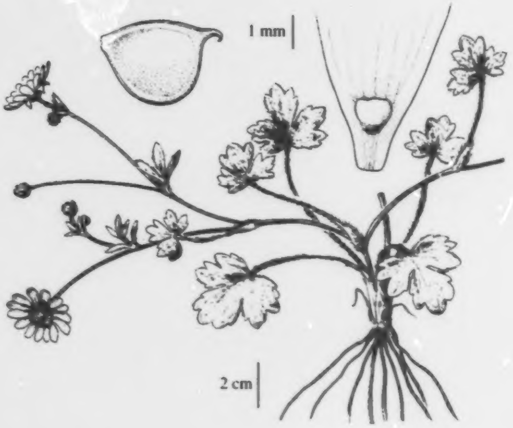
Ranunculus californicus Benth.

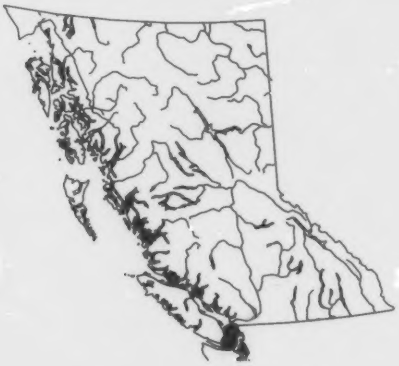
California buttercup

Habitat/Range: Mesic to dry, grassy coastal bluffs and meadows (CDFmm); rare on extreme SE Vancouver Island and adjacent islands; S to CA.

Global/Provincial Rank: G5 S2 Status: Red

Notes: Forms hybrid swarms with *R. occidentalis* (*R.* x *heimburgerae* T.C. Brayshaw) in Uplands Park.



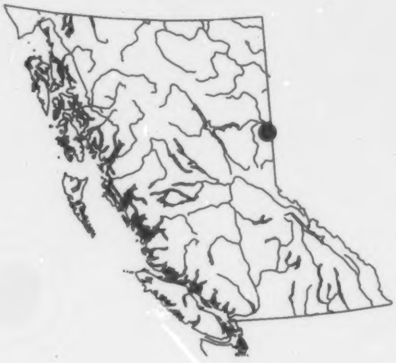


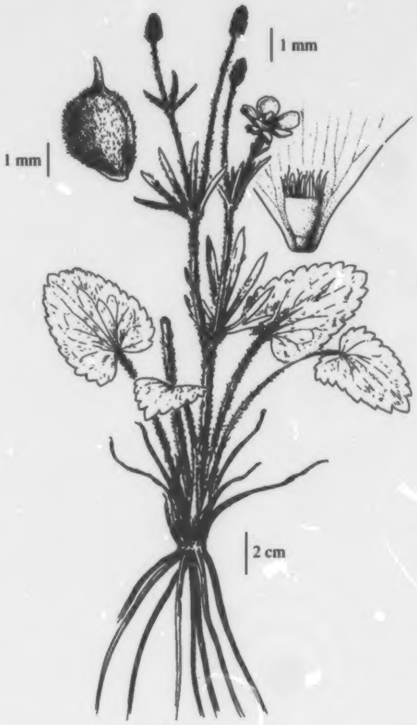
Ranunculus cardiophyllus **Hook.** (*R. pedatifidus* var. *cardiophyllus* [Hook.] Britt.)

heart-leaved buttercup

Habitat/Range: Moist to mesic grasslands, meadows and forest openings in the montane zone (BWBSmw1); rare in NE BC, known only from the Dawson Creek area; N to NT, E to SK and S to WY, UT, AZ and NE WA.

Global/Provincial Rank: G4G5 S1 Status: Red





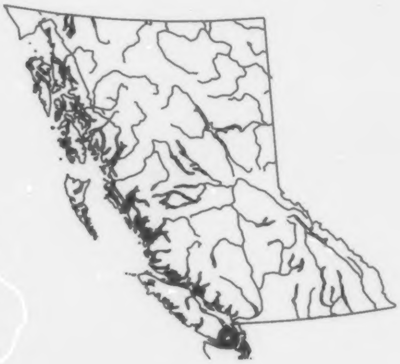
Ranunculus lobbii **(Hiern.) A. Gray**

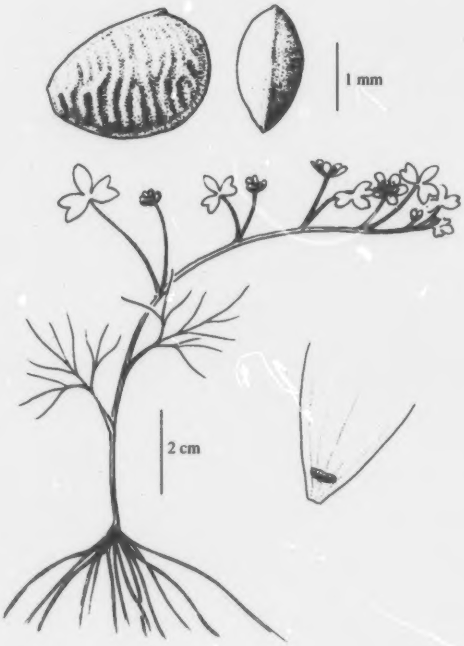
Lobb's water-buttercup

Habitat/Range: Vernal pools and wet sites in the lowland zone (CDFmm); rare on SE Vancouver Island, known only from the Victoria area.

Global/Provincial Rank: G4 SX Status: Red

Notes: This species was last collected in Victoria in 1948.



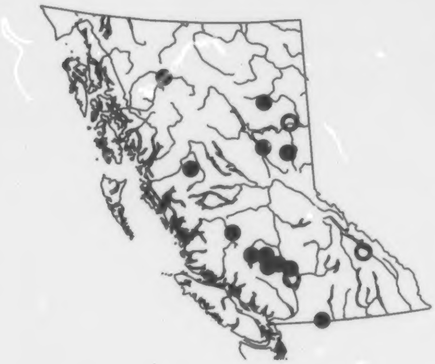


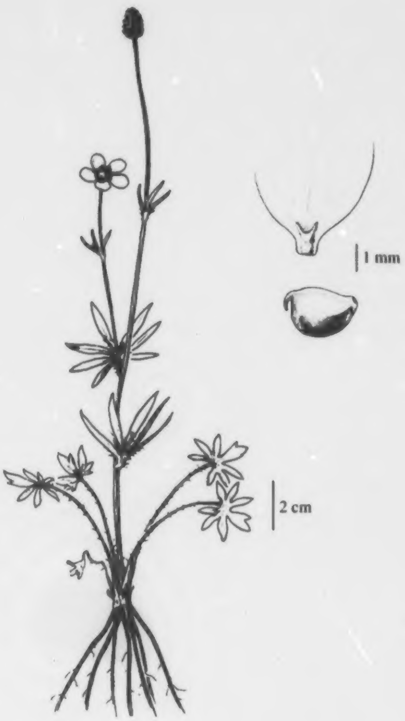
Ranunculus pedatifidus **Smith ssp. *affinis* (R. Br.) L. Benson** (*R. affinis* R. Br., *R. pedatifidus* var. *leiocarpus* [Trautv.] Fern.)

birdfoot buttercup

Habitat/Range: Moist meadows in the montane to alpine zones (AT, BWBSdk1, BWBSmw1, ESSFxv1, ICHwk1, IDFdk3, SBPSxc); rare in BC in and east of the Coast-Cascade Mountains; circumpolar, N to AK, YT and NT, E to NF and S to NJ, WY, CO, NM and AZ; Eurasia.

Global/Provincial Rank: G5T5 S2S3 Status: Blue





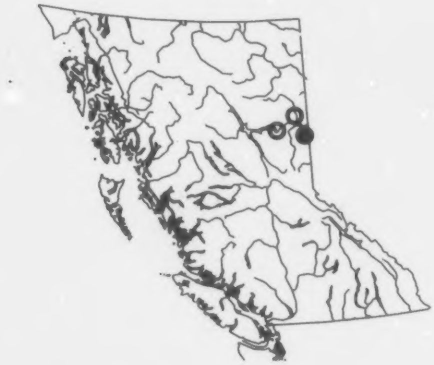
Ranunculus rhomboideus **Goldie**

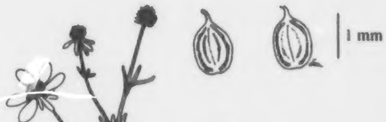
prairie buttercup

Habitat/Range: Dry grasslands, thickets and open forests in the montane zone (BWBSmw1); rare in NE BC; N to NT, E to ON and S to MA, NB and IL.

Global/Provincial Rank: G4 S1 Status: Red

Notes: This species was recently collected in the Dawson Creek area by J. Fenneman in 2001 after a hiatus of 79 years.



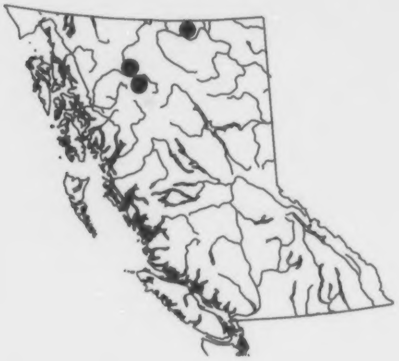


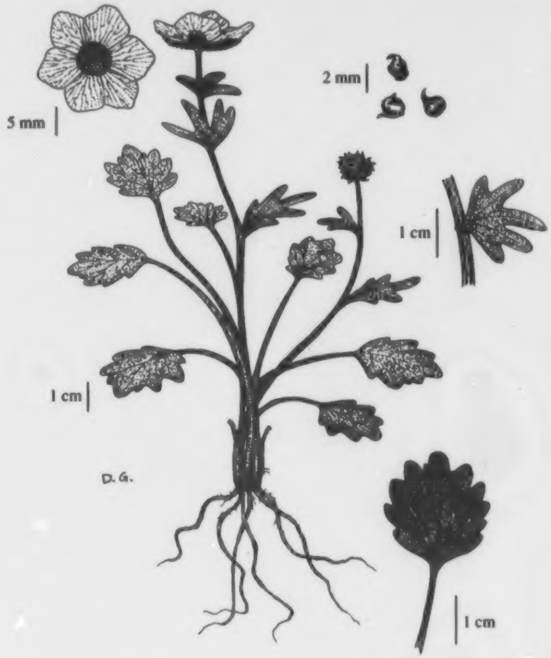
Ranunculus sulphureus **Soland. *ex* Phipps** (*R. sulphureus* var. *intercedens* Hult.)

sulphur buttercup

Habitat/Range: Moist to wet meadows, tundra, mossy seepage sites and scree in the alpine zone (AT); rare in N BC; circumpolar, N to AK, YT and NT and E to Labr.; Greenland, N Eurasia.

Global/Provincial Rank: G5 S2S3 Status: Blue





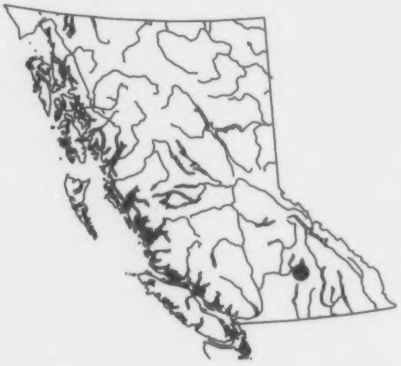
Rhynchospora capillacea **Torr.**

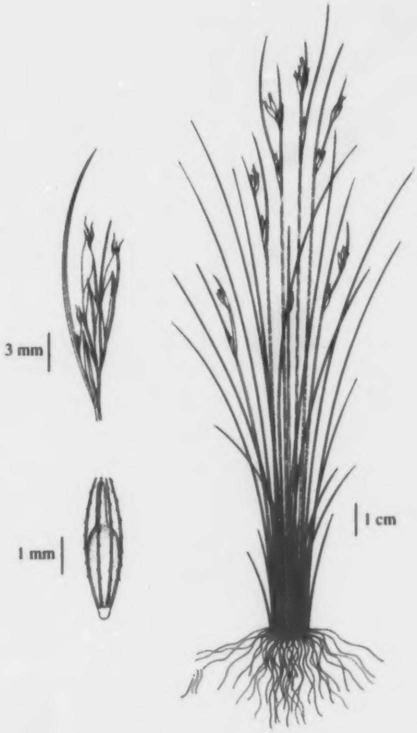
brown beak-rush

Habitat/Range:

Calcareous fens and shorelines in the montane zone (ICHmw2); rare in SC BC, known only from Mara Meadows; E to NF and S to ME, MA, VA, AL, AR and TX.

Global/Provincial Rank: G5 S1 Status: Red



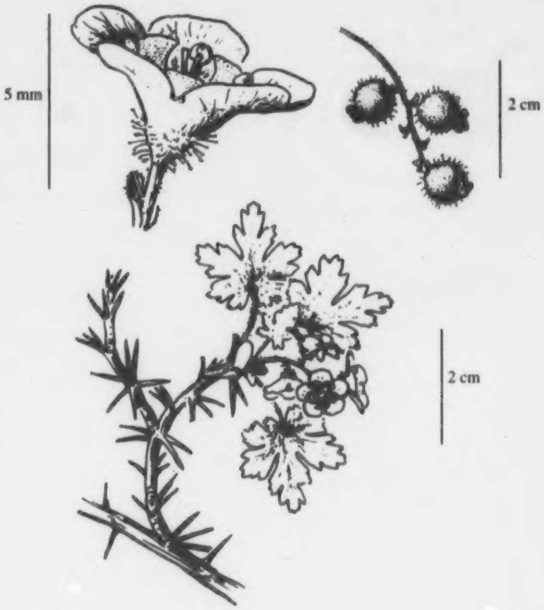


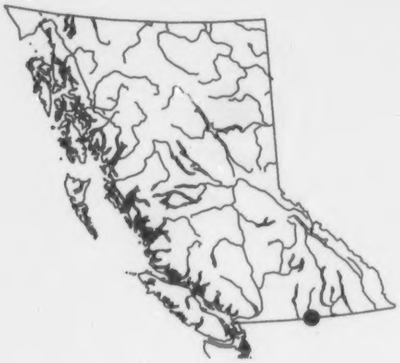
Ribes montigenum McClatchie

mountain prickly gooseberry; alpine prickly gooseberry

Habitat/Range: Mesic to dry talus slopes and rocky ridges in the montane zone (PPdh1); rare in extreme SC BC, known only from Midway; S to NM and CA.

Global/Provincial Rank: G4 S1 Status: Red



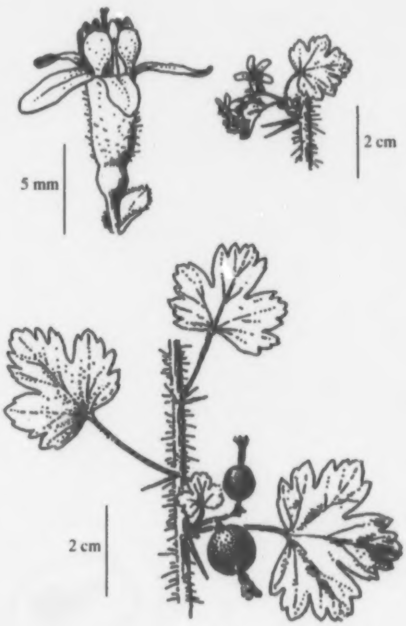


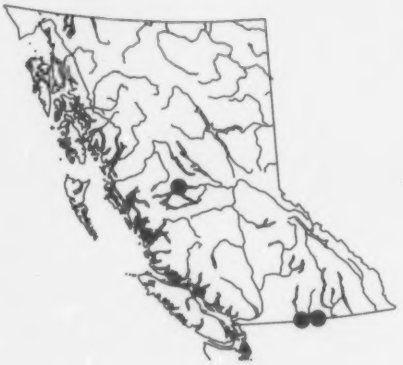
Ribes oxyacanthoides L. ssp. *cognatum* (Greene) Sinnott (*R. cognatum* Greene)

northern gooseberry; northern smooth gooseberry

Habitat/Range: Moist woodlands, thickets and forest openings in the montane zone (IDFdm1, PPdh1, SBSdk); rare in SC BC; S to MT, ID and OR.

Global/Provincial Rank: G5T4 S1 Status: Red



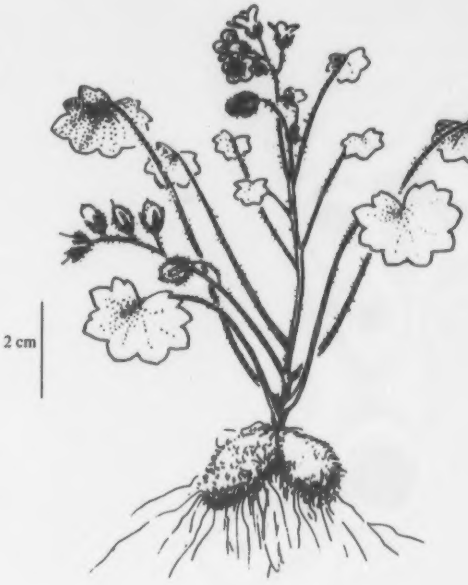


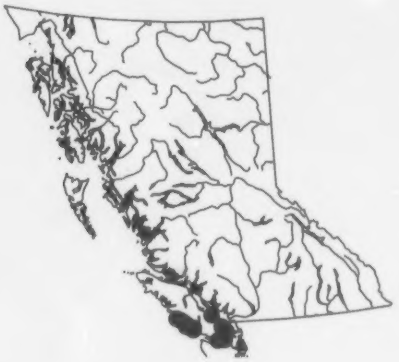
***Romanzoffia tracyi* Jeps.**

Tracy's romanzoffia; Tracy's mistmaiden

Habitat/Range: Mesic to moist coastal bluffs in the lowland zone (CDFmm, CWHvh1, CWHxm1, CWHxm2); rare on S and W Vancouver Island; S to N CA.

Global/Provincial Rank: G4 S2S3 Status: Blue



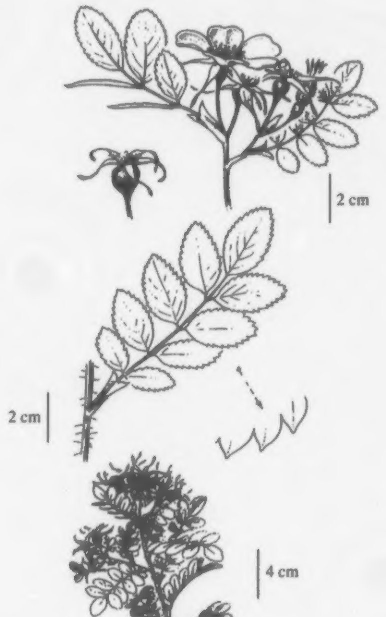


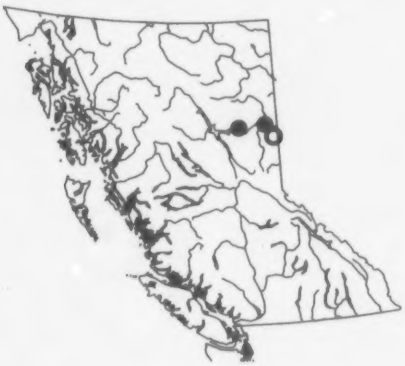
Rosa arkansana* T.C. Porter var. *arkansana

Arkansas rose

Habitat/Range: Dry grassy slopes, cutbanks, thickets and open forests in the montane zone (BWBSmw1, BWBSwk1, ESSFdk); rare in extreme EC BC, known only from Dunlevy Inlet (Williston Reservoir) and along the Peace River; E to MB and S to MT, NM, TX and MO.

Global/Provincial Rank: G5T4T5 S2S3 Status: Blue



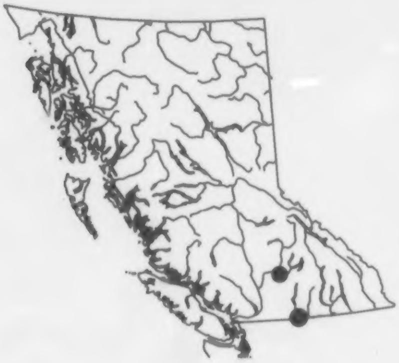


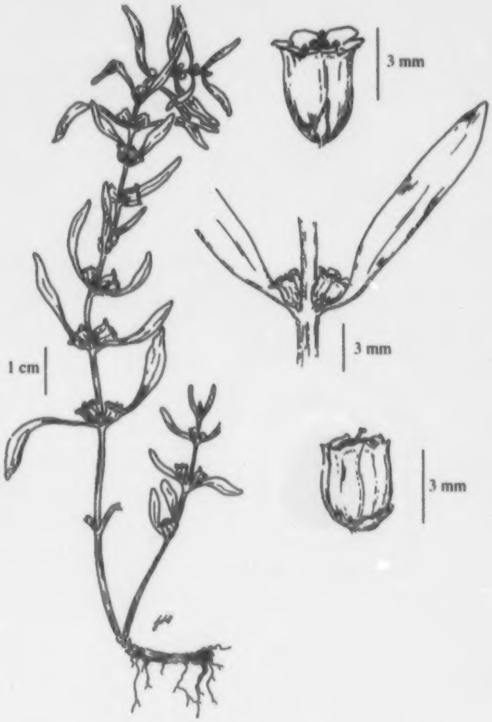
Rotala ramosior **(L.) Koehne**

toothcup meadow-foam

Habitat/Range: Wet, sandy lakeshores and ponds in the steppe zone (BGxh1, BGxh2); rare in SC BC, known only from the Osoyoos Lake area and Kamloops Lake; disjunct to ON, S to NH, FL, CA and MX; W Indies.

Global/Provincial Rank: G5 S1 Status: Red





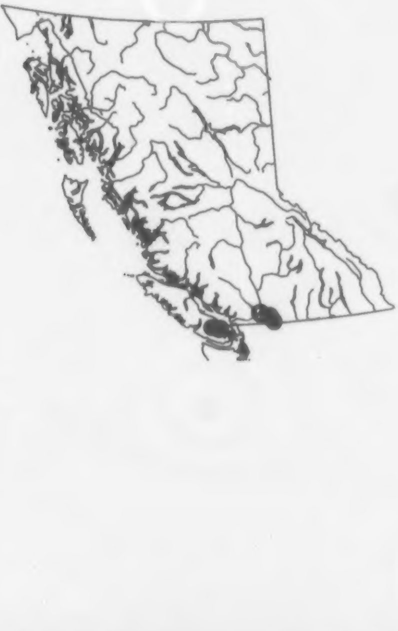
Rubus lasiococcus **A. Gray**

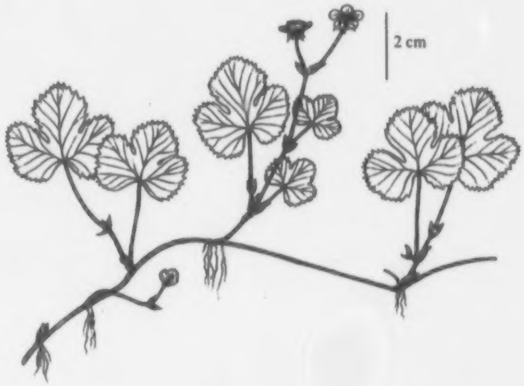
dwarf bramble

Habitat/Range: Mesic to moist thickets and open forests in the montane and lower subalpine zones (CDFmm, CWHds1, CWHmm2, CWHxm1, ESSFmw, MHmm1); rare in SW BC; S to N CA.

Global/Provincial Rank: G5 S2S3 Status: Blue

Notes: For colour illustration see Pojar and MacKinnon (1994).



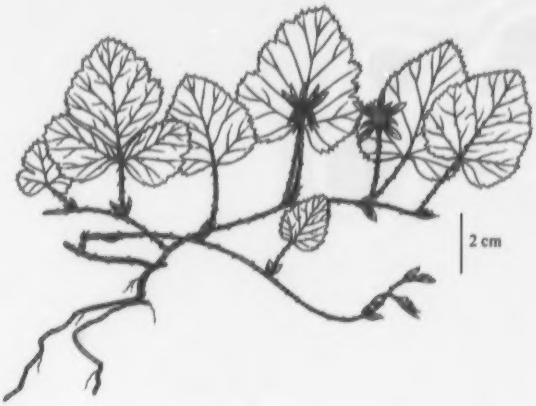


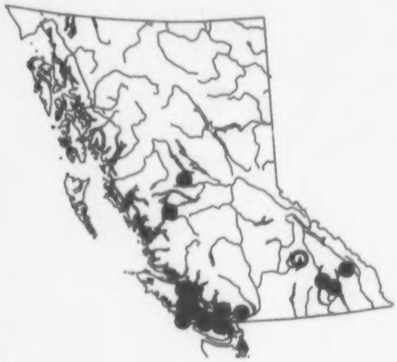
Rubus nivalis Dougl. *ex* Hook.

snow bramble; snow dewberry

Habitat/Range: Moist forests and glades in the montane zone (CDFmm, CWHmm2, CWHvh1, CWHvm1, CWHxm1, CWHxm2, ICHmw2, ICHmw3, MHmm1); rare in S BC; S to CA and ID.

Global/Provincial Rank: G4? S2 Status: Red



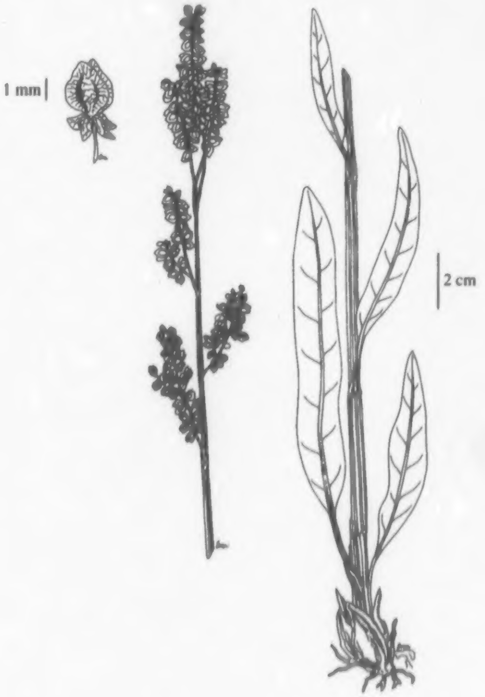


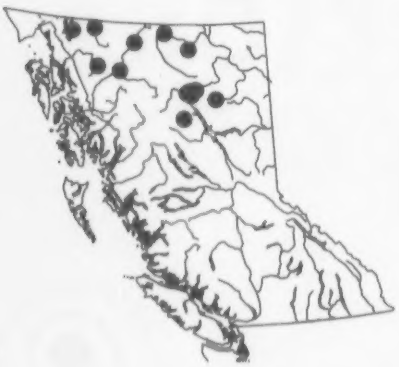
Rumex arcticus Trautv.

arctic dock

Habitat/Range: Moist to wet sites from the montane to alpine zones (AT, BWBSdk1, BWBSdk2, ESSFmv4, SWBmk, SWBun); rare in N BC; circumpolar, N to AK, YT and NT; N. Eurasia.

Global/Provincial Rank: G5 S3 Status: Blue



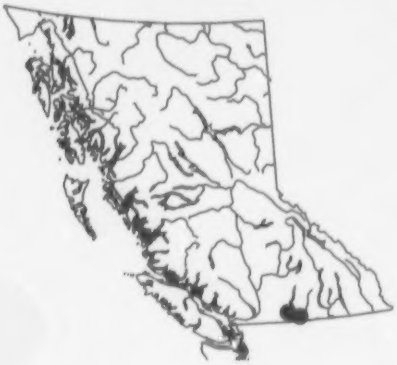


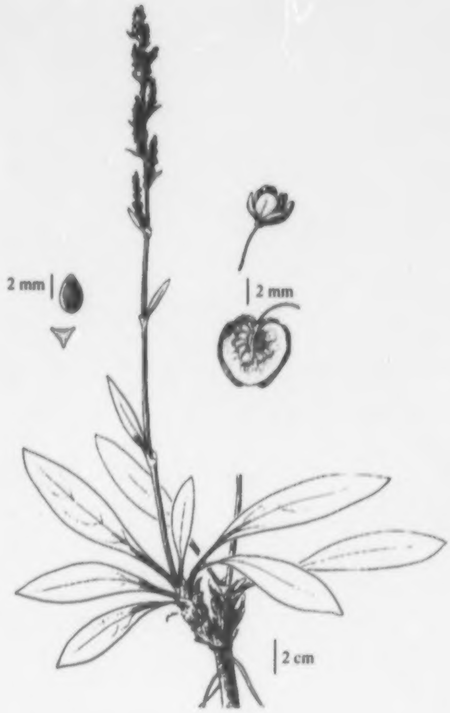
Rumex paucifolius **Nutt.**

alpine sorrel

Habitat/Range: Mesic to moist forest openings and meadows in the subalpine and alpine zones (AT, ESSFdcp1, ESSFxcp); rare in SC BC; E to SW AB and S to CO and CA.

Global/Provincial Rank: G4 S2S3 Status: Blue





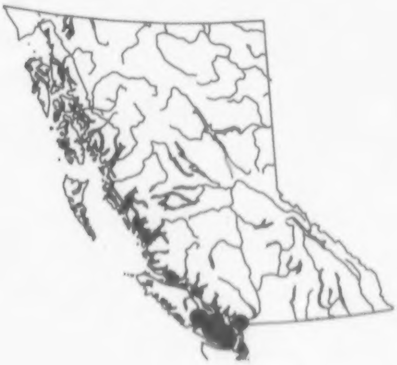
Rupertia physodes **(Dougl. *ex* Hook.) J. Grimes**

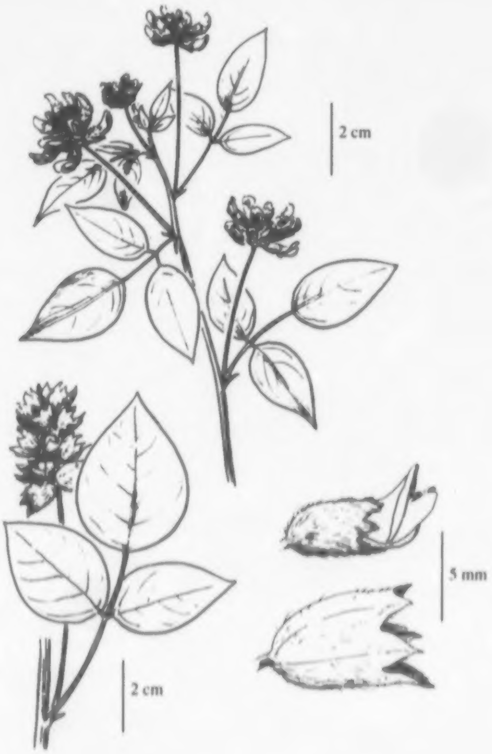
(*Psoralea physodes* Dougl. *ex* Hook.)

California-tea

Habitat/Range: Mesic open forests in the lowland zone (CDFmm, CWHmm2, CWHxm1, CWHxm2, MHmm1); rare on S Vancouver Island and the lower Fraser River valley; S to CA, disjunct in ID.

Global/Provincial Rank: G4 S3 Status: Blue



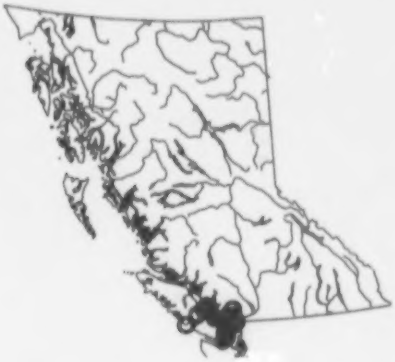


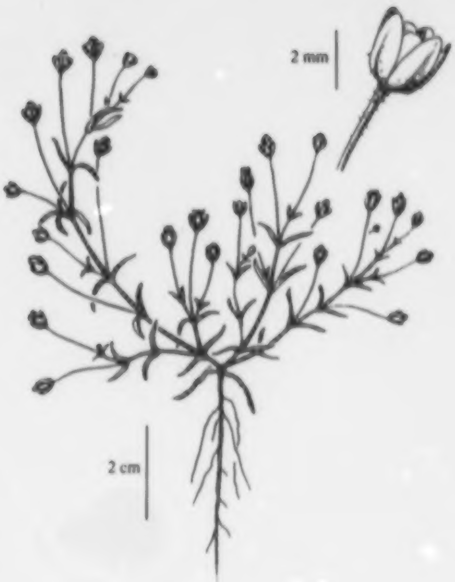
***Sagina decumbens* (Ell.) T. & G. ssp. *occidentalis* (S. Wats.) Crow** (*S. occidentalis* S. Wats.)

western pearlwort

Habitat/Range: Margins of vernal pools, mesic forest openings and dry hillsides in the lowland zone (CDFmm, CWHdm, CWHvh1, CWHvm2, CWHxm1); rare in SW BC; S to CA.

Global/Provincial Rank: G5T? S3 Status: Blue



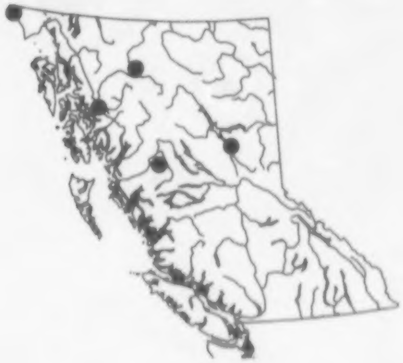


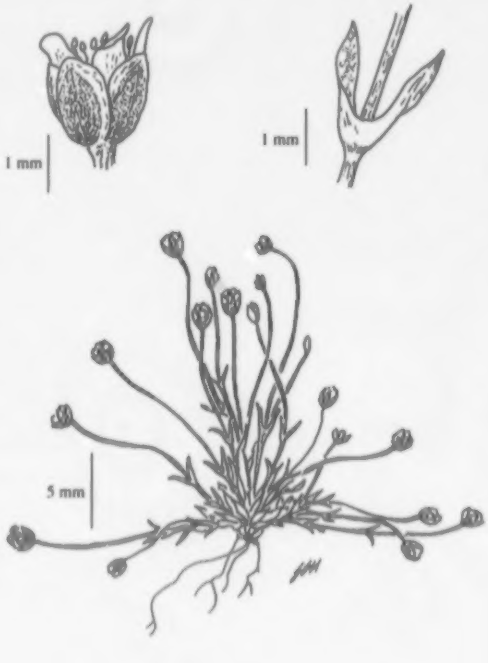
***Sagina nivalis* (Lindbl.) Fries** (*S. intermedia* Fenzl)

snow pearlwort

Habitat/Range: Moist to mesic gravelly slopes and snowbeds in the subalpine and alpine zones (AT, SBSmc2); rare in N BC; N to AK, YT and NT and E to PQ.

Global/Provincial Rank: G5 S2S3 Status: Blue



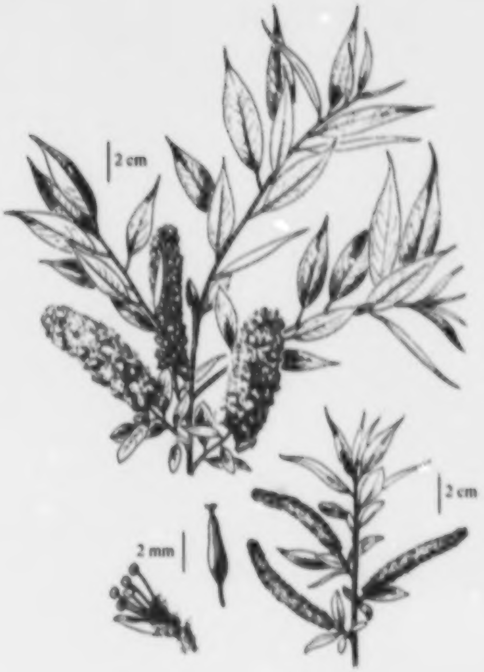


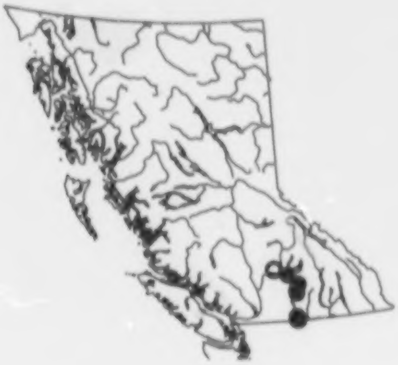
***Salix amygdaloides* Andersson**

peach-leaf willow

Habitat/Range: Moist to mesic floodplains and lakeshores in the steppe zone (BGxh1); rare in SC BC; E to PQ and S to PA, IN, MO, TX, NM, AZ, NV and OR.

Global/Provincial Rank: G5 S2 Status: Red



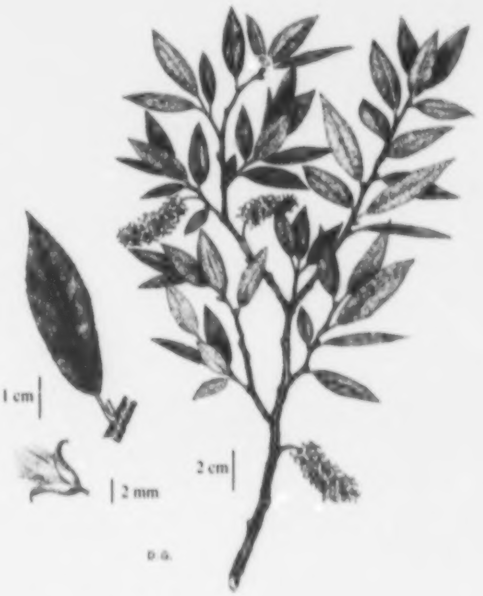


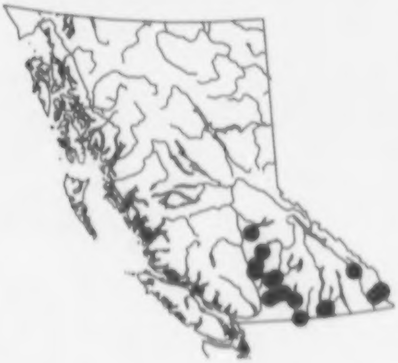
***Salix boothii* Dorn** (*S. pseudocordata auct. non* Andersson, *S. pseudomyrsinites auct. non* Andersson)

Booth's willow

Habitat/Range: Moist to wet streambanks and meadows in the montane and subalpine zones (ICHmk1, ICHmw2, IDFdk1, IDFdk2, IDFdk3, IDFdm1, IDFun, IDFxh2, IDFxw, MSdk, MSdm1, MSxk); rare in SC and SE BC; E to AB and S to NM, AZ and CA.

Global/Provincial Rank: G5 S2S3 Status: Blue



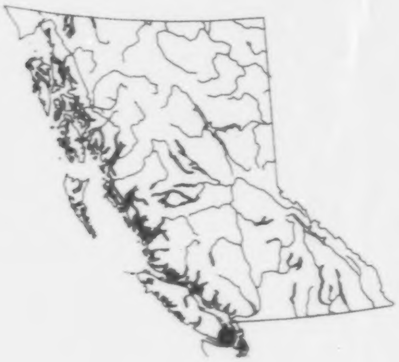


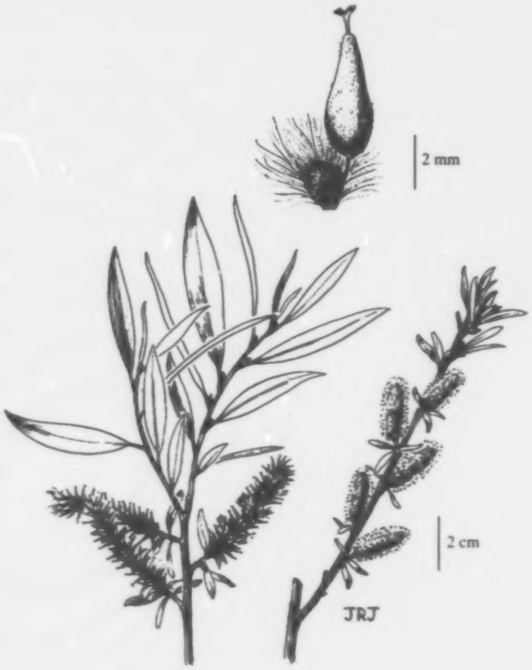
Salix lemmonii **Bebb**

Lemmon's willow

Habitat/Range: Streams, lakeshores and wet meadows in the lowland zone (CDFmm); rare on SE Vancouver Island, known only from Rithet's Bog and Saanich Peninsula; S to CO, ID, NV and CA.

Global/Provincial Rank: G5 S1 Status: Red



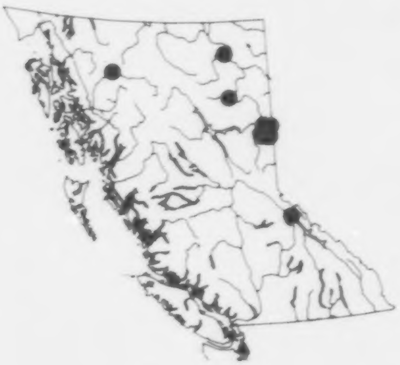


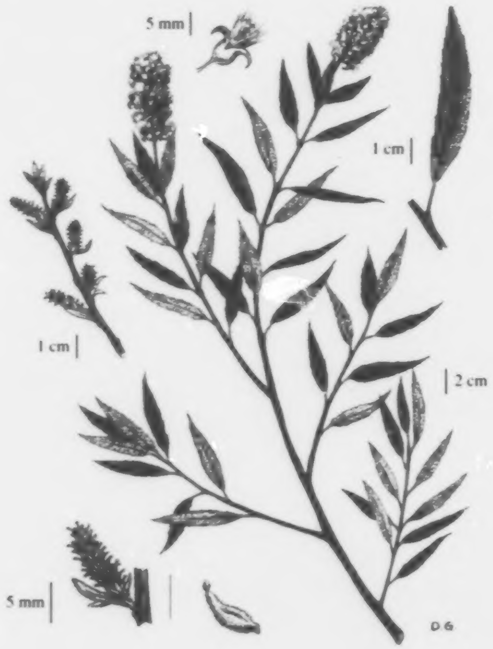
Salix petiolaris **Sm.** (*S. gracilis* Andersson)

meadow willow

Habitat/Range: Wet thickets in the lower montane zone (BWBSdk1, BWBSmw1, BWBSmw2, SBSdh1); rare in N BC; N to S NT, E to NB and S to NJ, MO, CO and WA.

Global/Provincial Rank: G5 S2S3 Status: Blue



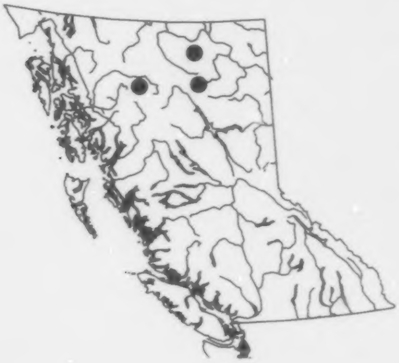


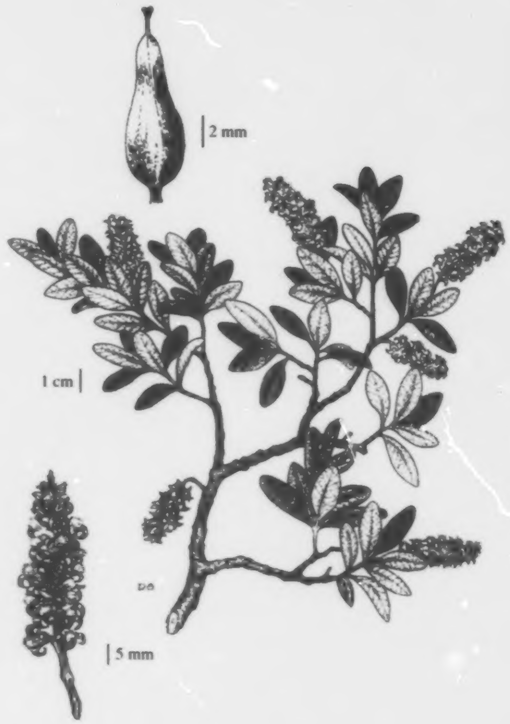
***Salix raupii* Argus**

Raup's willow

Habitat/Range: Moist thickets, open forests and gravel floodplains in the montane zone (BWBSdk, BWBSmw2); rare in N BC; N to YT and NT and E to W AB.

Global/Provincial Rank: G2 S1 Status: Red



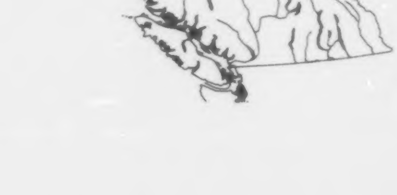


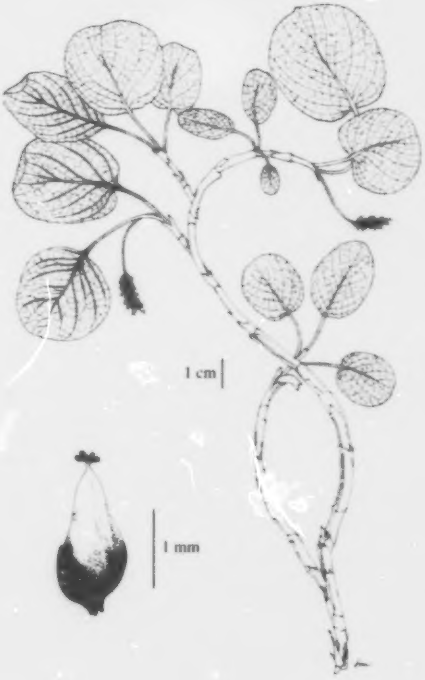
***Salix reticulata* L. ssp. *glabellicarpa* Argus**

net-veined willow; net-leaved willow

Habitat/Range: Moist cliffs and ledges in the subalpine and alpine zone (AT, MHwh1); rare on the Queen Charlotte Islands; endemic to BC and SE AK.

Global/Provincial Rank: G5T2 S2 Status: Red



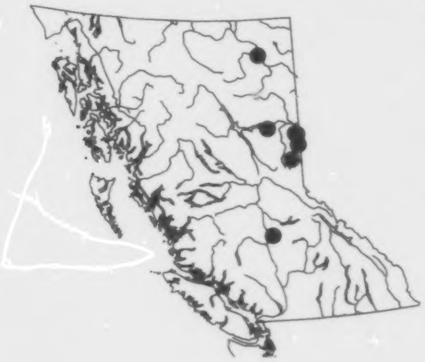


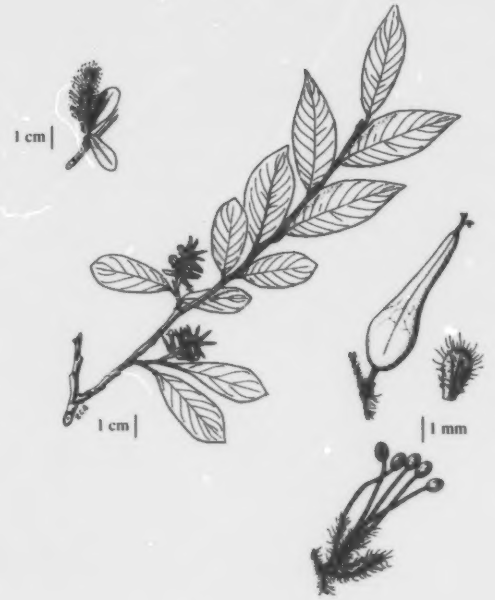
Salix serissima (L. H. Bailey) Fern.

autumn willow

Habitat/Range: Wet thickets, meadows and fens in the montane zone (BWBSmw1, BWBSmw2, BWBSwk1, IDFxm); rare in C and NE BC; N to S NT, E to NF and S to MA, NJ, PA, OH, IN, IL, MN, SD and CO.

Global/Provincial Rank: G4 S2S3 Status: Blue



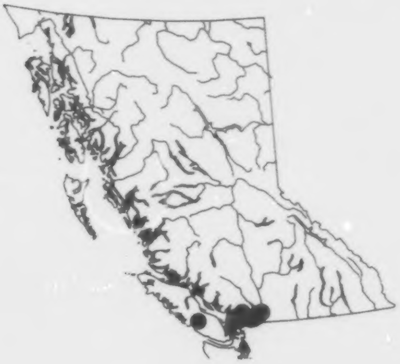


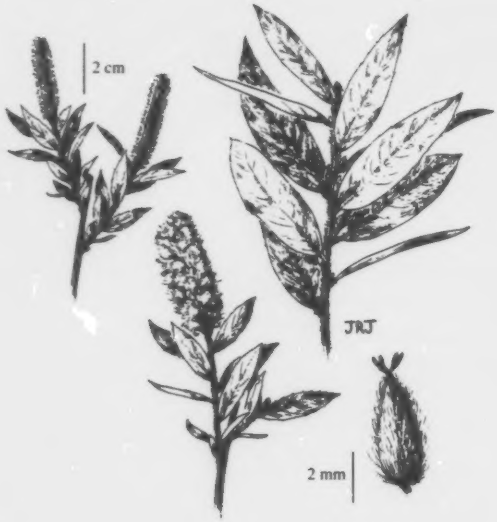
Salix sessilifolia Nutt. (*S. macrostachya* Nutt., *S. exigua* var. *sessilifolia* [Nutt.] Dorn)

soft-leaved willow; sessile-leaved sandbar willow, northwest sandbar willow

Habitat/Range: Moist to mesic sandbars in the lowland zone (CDFmm, CWHdm, CWHds1, CWHvm1, CWHxm1); rare in SW BC; S to CA.

Global/Provincial Rank: G4 S2S3 Status: Blue



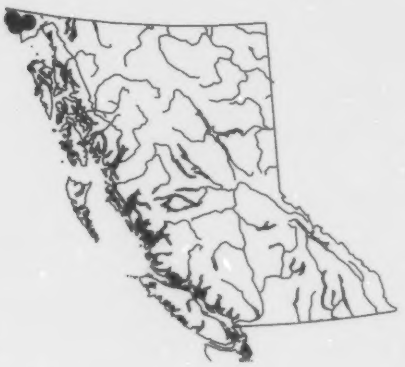


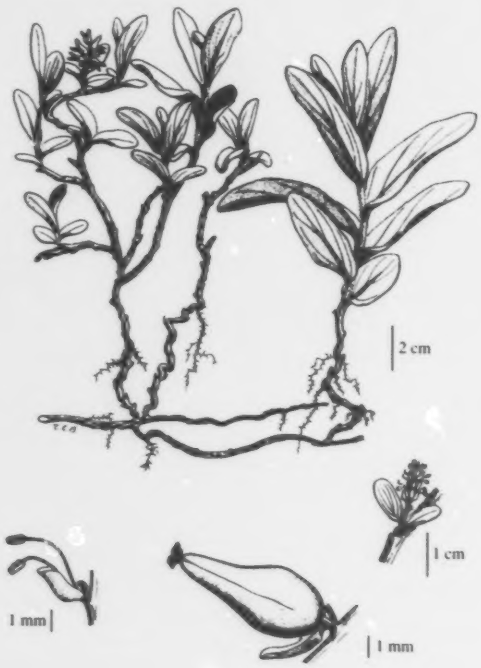
Salix setchelliana **C.R. Ball**

Setchell's willow

Habitat/Range: Pioneer on moist to mesic, sandy to gravelly sites along glacial rivers and on glacial moraines in the montane zone (BWBSdk1, BWBSvk): rare in extreme NW BC; endemic to AK, YT, and BC.

Global/Provincial Rank: G4 S3 Status: Blue



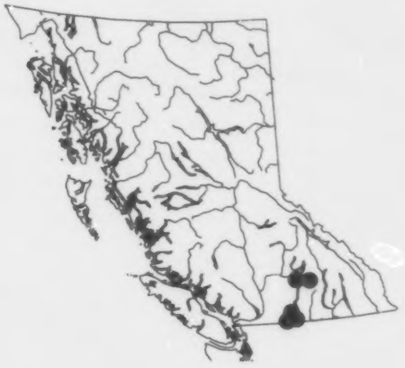


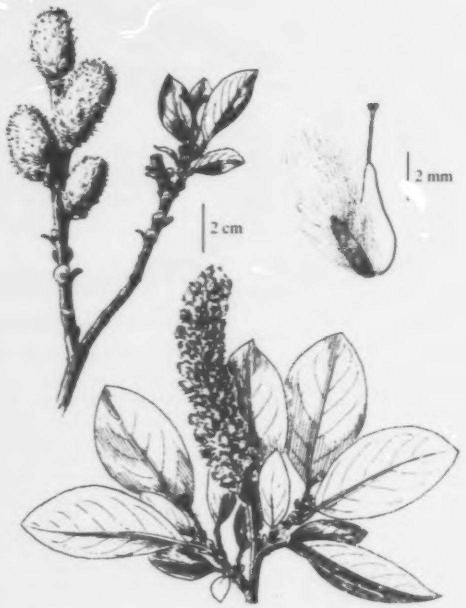
Salix tweedyi **(Bebb *ex* Rose) C.R. Ball** (*S. barrattiana* Hook. var. *tweedyi* Bebb *ex* Rose)

Tweedy's willow

Habitat/Range: Moist streamsides and lakeshores in the montane zone (ESSFxc, ICHmw2, MSdm2, MSxk); rare in SC BC; S to WY, ID and WA.

Global/Provincial Rank: G3G4 S2S3 Status: Blue



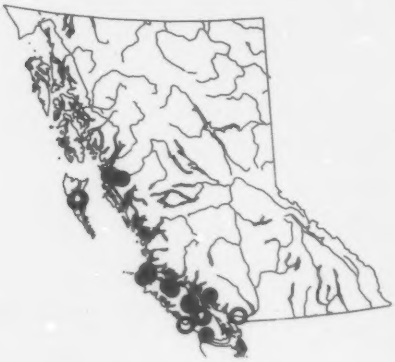


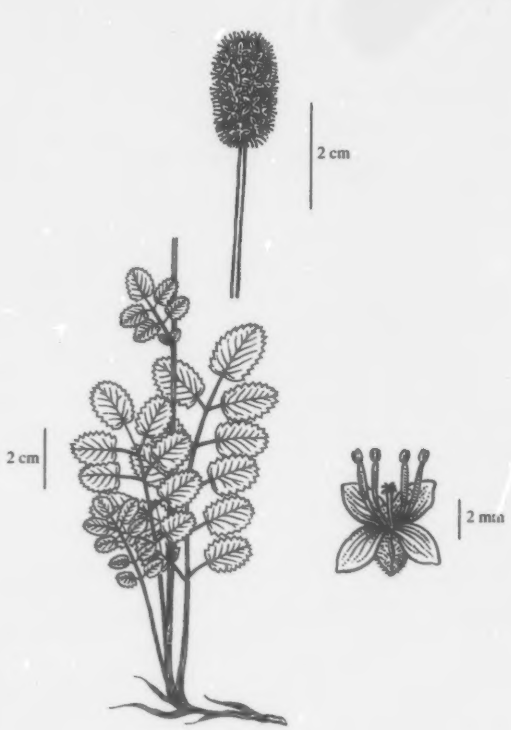
Sanguisorba menziesii Rydb.

Menzies' burnet

Habitat/Range: Fens, bogs, marshes and wet meadows in the lowland and montane zones (CWHvh1, CWHvh2, CWHvm, CWHvm1, CWHvm2, CWHwh1, CWHxm1, CWHxm2, MHmm1); rare along the coast in BC; N to AK and S to WA.

Global/Provincial Rank: G3G4 S2S3 Status: Blue



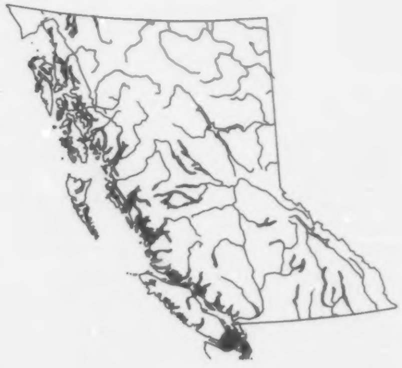


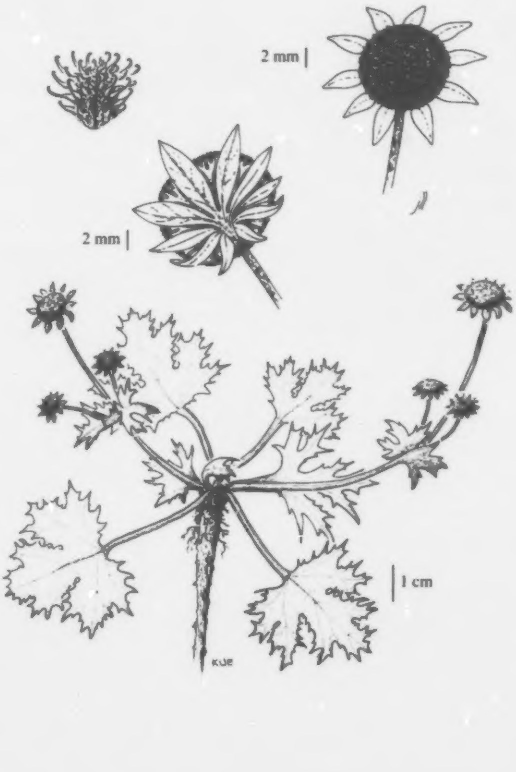
Sanicula arctopoides Hook. & Arn.

snake-root sanicle; bear's-foot sanicle, footsteps of spring

Habitat/Range: Mesic coastal bluffs in the lowland zone (CDFmm); rare in SW BC, known from SE Vancouver Island and adjacent islands; S to CA.

Global/Provincial Rank: G5 S1 Status: Red





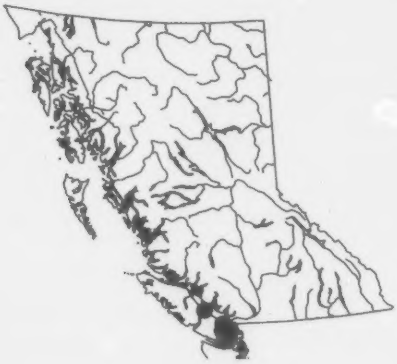
***Sanicula bipinnatifida* Dougl. *ex* Hook.**

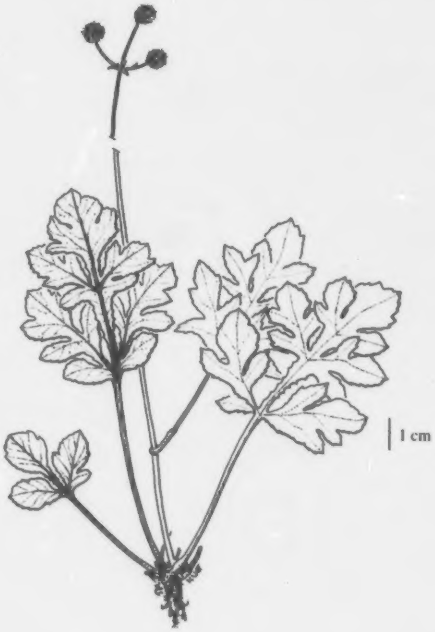
purple sanicle

Habitat/Range: Mesic to dry meadows and woodlands in the lowland zone (CDFmm); rare on SE Vancouver Island and adjacent islands; S to CA and MX.

Global/Provincial Rank: G5 S2 Status: Red

Notes: For colour illustration see Clark (1976).



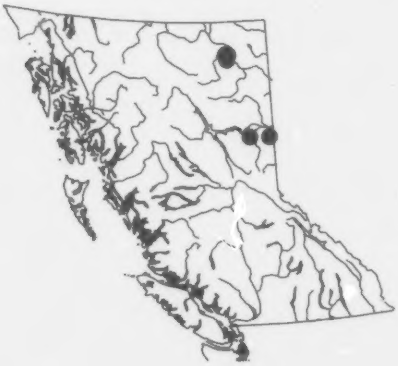


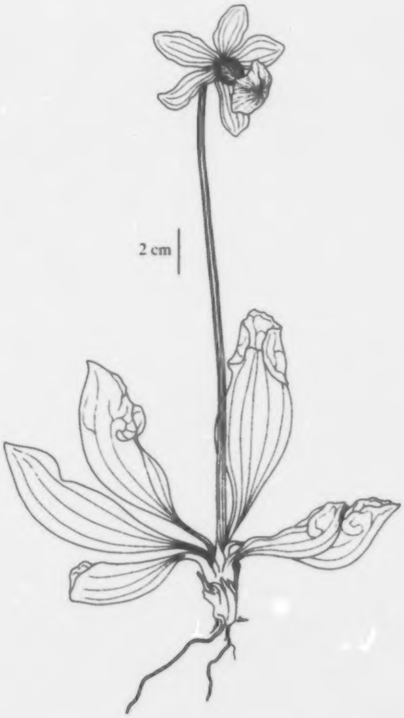
***Sarracenia purpurea* L. ssp. *gibbosa* (Raf.) Wherry**

common pitcher-plant

Habitat/Range: Bogs and fens in the montane zone (BWBSmw1, BWBSmw2); rare in NE BC; N to NT, E to NF and S to NY, VA, OH, IN, IL, MN and CA.

Global/Provincial Rank: G5T5 S2S3 Status: Blue





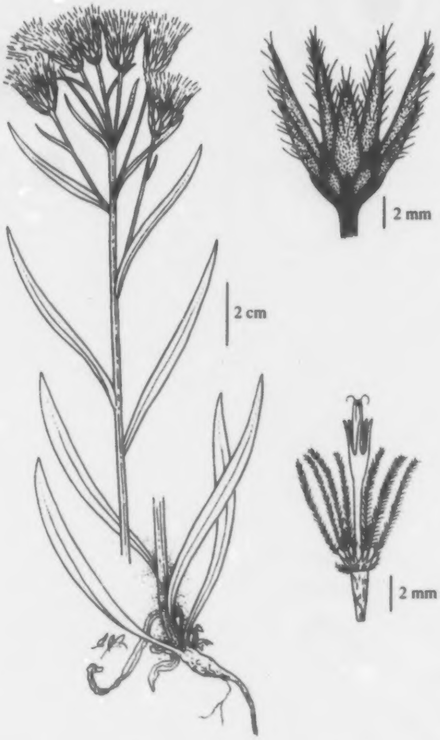
Saussurea angustifolia **(Willd.) DC. var. *angustifolia***

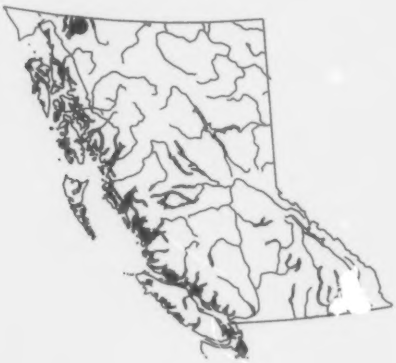
northern sawwort

Habitat/Range: Moist to mesic bogs, meadows and openings from the montane to the alpine zones (BWBSdk1); rare in NW BC, known only from near Atlin; amphiberingian, N to AK, YT and NT; NE Asia.

Global/Provincial Rank: G5T? S2S3 Status: Blue

Notes: The var. *yukonensis* Pors., which is common in adjacent YT, may be found in BC in the future. It differs mainly in its shorter habit and more toothed leaves.



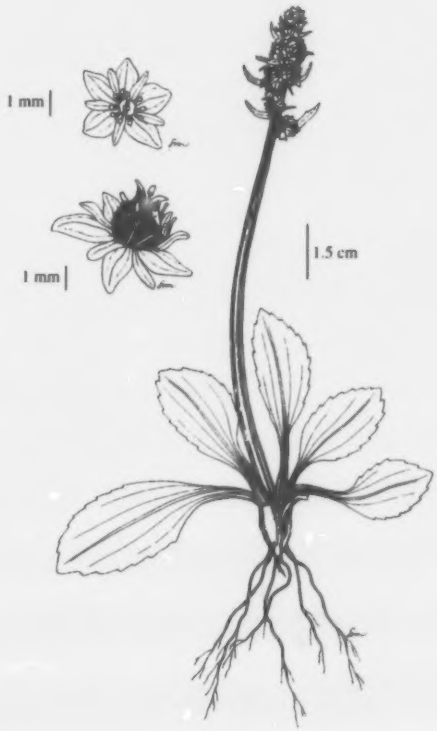


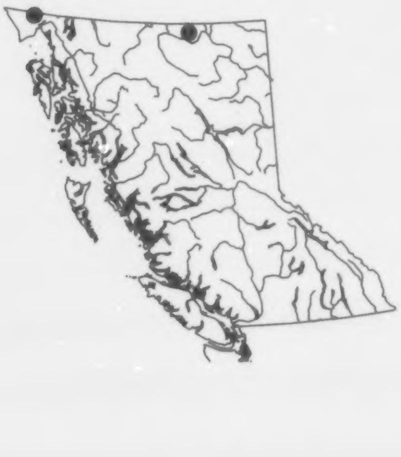
Saxifraga hieraciifolia **Waldst. & Kit. var. *hieraciifolia***

hawkweed-leaved saxifrage

Habitat/Range: Moist to wet meadows and solifluction slopes in the alpine zone (AT); rare in extreme N BC, known only from Mt. Mansfield and Liard Plateau; circumpolar, N to AK, YT and NT; Greenland, N Eurasia.

Global/Provincial Rank: G4T? S2S3 Status: Blue





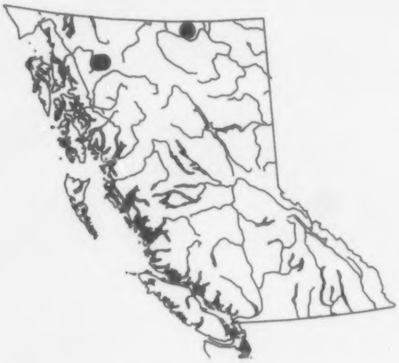
Saxifraga hirculus* L. ssp. *hirculus

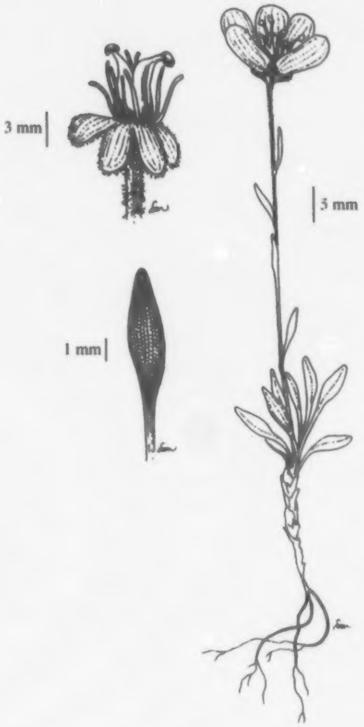
yellow marsh saxifrage

Habitat/Range: Wet meadows and bogs in the alpine zone (AT); rare in N BC; circumpolar, N to AK, YT and NT, E to N PQ, disjunct in MT, CO and UT; Iceland, N Eurasia.

Global/Provincial Rank: G5T? S2S3 Status: Blue

Notes: For colour illustration see White and Williams (1974).



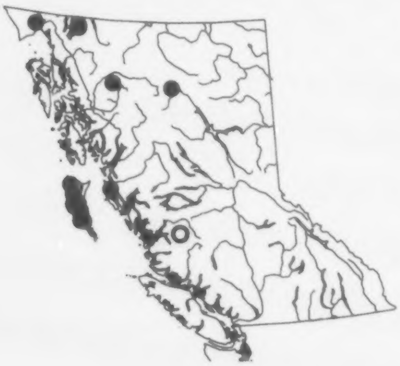


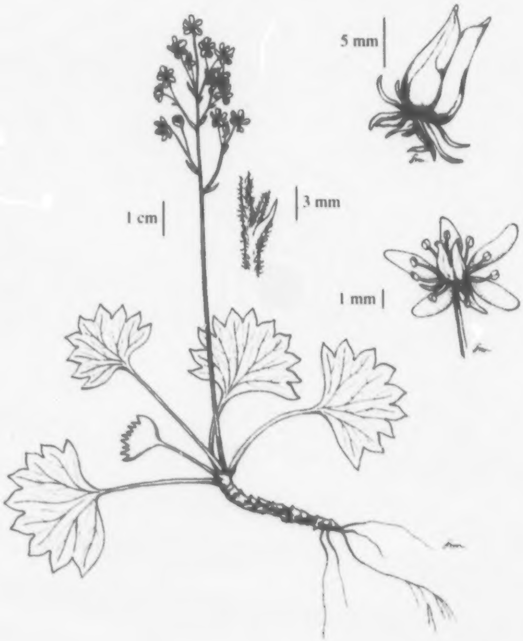
***Saxifraga nelsoniana* D. Don ssp. *carlottae* (Calder & Savile) Hult.** (*S. punctata* ssp. *carlottae* Calder & Savile)

dotted saxifrage

Habitat/Range: Moist rock outcrops, ledges and streambanks from the montane to alpine zones (AT, BWBSdk1, CWHds2, CWHvh2, CWHwh1, MHwh, SWBdk, SWBmk, SWBun); rare on the Queen Charlotte Islands and adjacent mainland, and in N BC; endemic to BC and SE AK.

Global/Provincial Rank: G5T2 S2 Status: Red



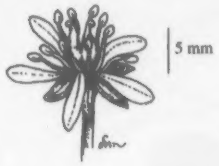


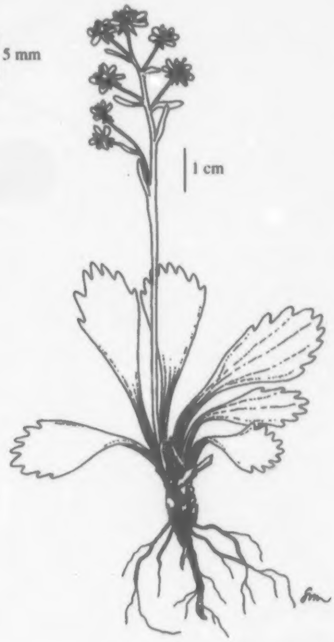
Saxifraga razshivinii **Zhmylew** (*Saxifraga davurica* Willd. ssp. *grandipetala* [Engl. & Irmsch.] Hult.)

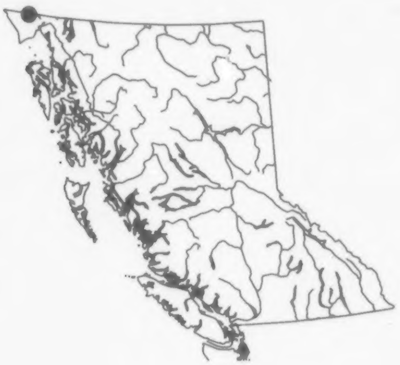
large-petalled saxifrage

Habitat/Range: Moist to wet solifluction slopes, scree slopes and seepage sites in the alpine zone (AT); rare in NW BC, known only from Squaw Creek, Haines Triangle; amphiberingian, N to AK, YT and NT; NE Asia.

Global/Provincial Rank: G? S2S3 Status: Blue







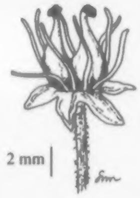
Saxifraga serpyllifolia **Pursh**

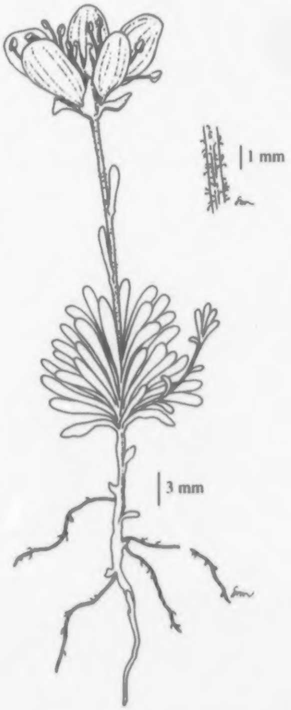
thyme-leaved saxifrage

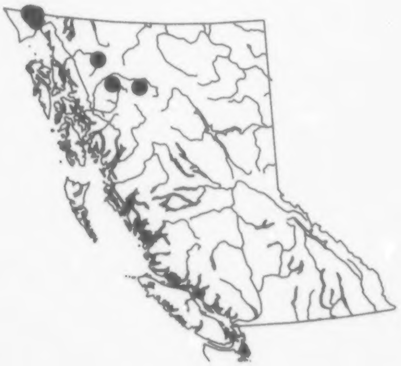
Habitat/Range: Moist scree and gravel slopes in the alpine zone (AT); rare in NW BC; amphiberingian, N to AK, YT and NT; NE Asia.

Global/Provincial Rank: G5 S2S3 Status: Blue

Notes: For colour illustration see White and Williams (1974).





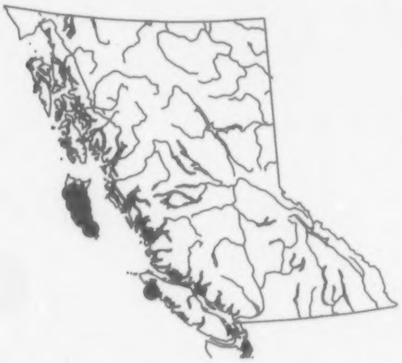


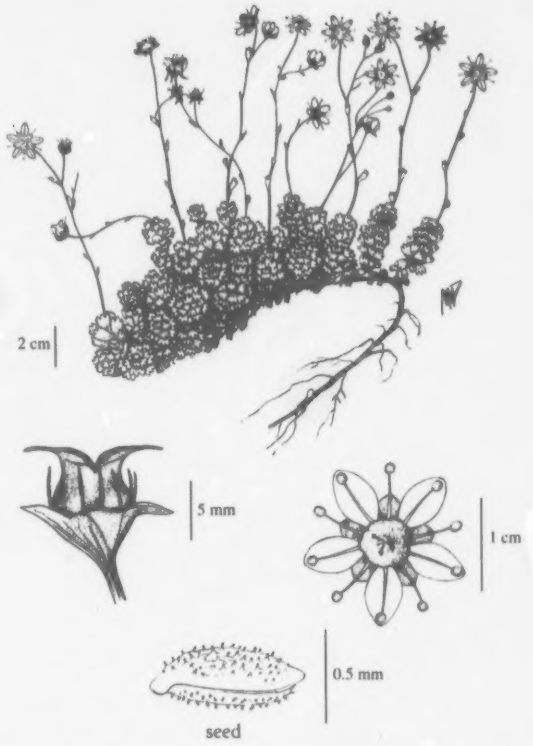
Saxifraga taylori **Calder & Savile**

Taylor's saxifrage

Habitat/Range: Moist rock outcrops, talus slopes and cliffs in the subalpine and alpine zones (AT, CWHvh2, CWHwh1, CWHwh2, MHwh); rare in the Queen Charlotte Islands and NW Vancouver Island; endemic.

Global/Provincial Rank: G3 S3 Status: Blue



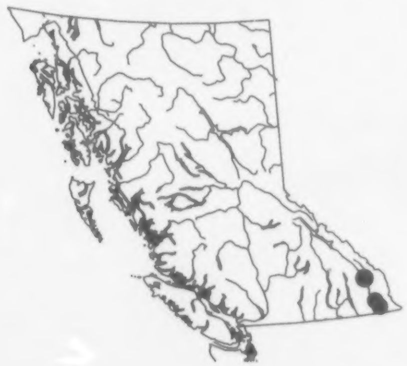


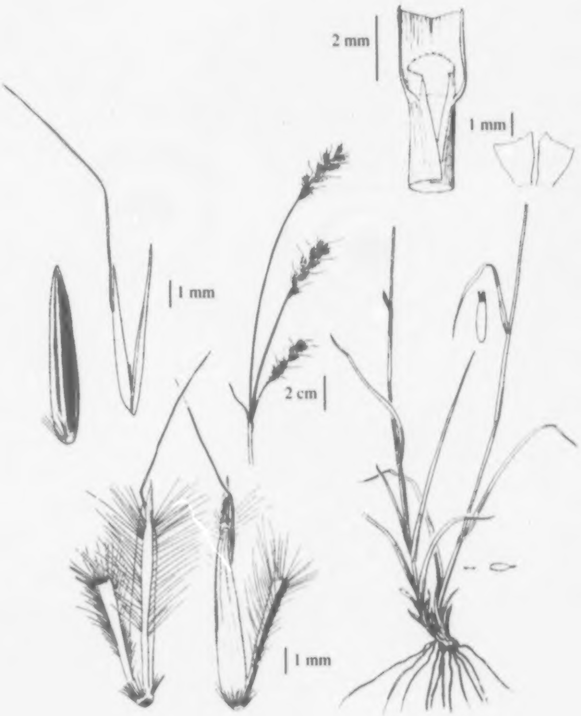
Schizachyrium scoparium **(Michx.) Nash** (*Andropogon scoparius* Michx.)

little bluestem

Habitat/Range: Mesic to dry shrublands, open forests and hotsprings in the lower montane zone (IDFdm2); rare in SE BC; E to NS and S to MA, ME, PA, NC, FL, MS, LA, TX, NM, AZ and CA.

Global/Provincial Rank: G5 S1 Status: Red



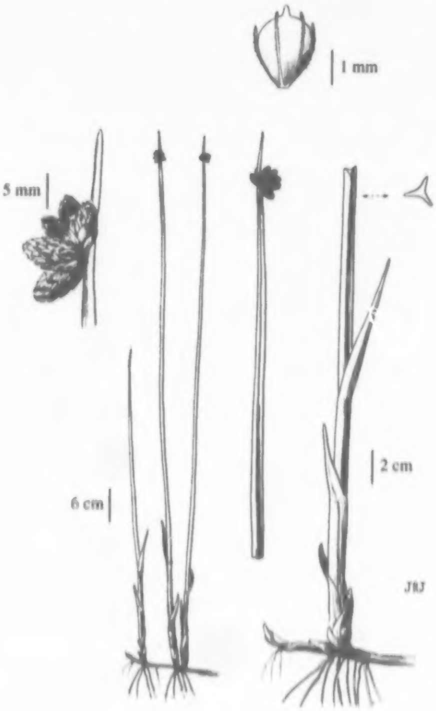


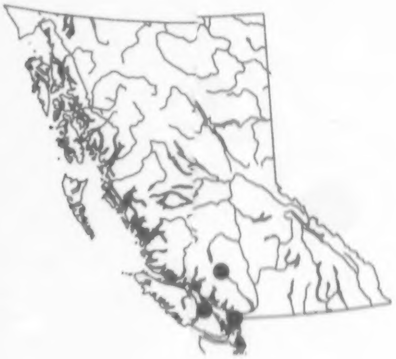
Schoenoplectus americanus **(Pers.) Volk. *ex* Schinz & R. Keller** (*Scirpus americanus* Pers., *S. olneyi* A. Gray)

Olney's bulrush

Habitat/Range: Saline or alkaline marshes and wet meadows in the lowland and montane zones (CDFmm, CWHds1); rare in SW BC; disjunctly E to NS and S to MA, NC, FL, MS, TX, NM, AZ and CA; S America.

Global/Provincial Rank: G5 S1 Status: Red





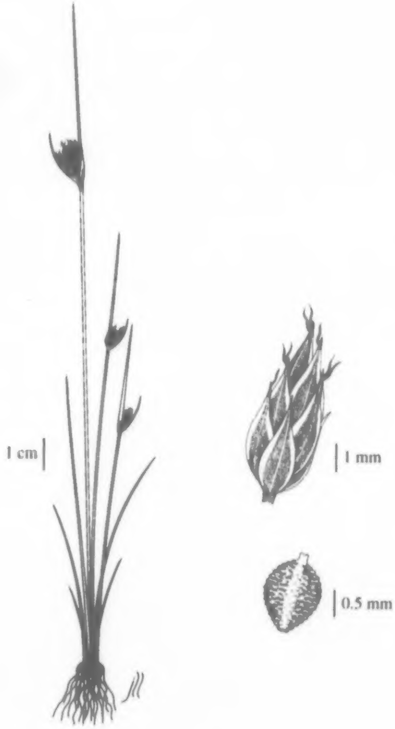
Schoenoplectus saximontanus **(Fern.) Raynal** (*Scirpus supinus* L. var. *saximontanus* [Fern.] Koyama, *S. saximontanus* Fern.)

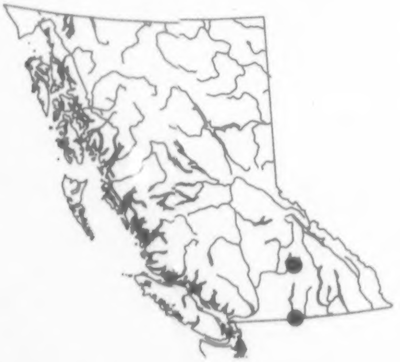
Rocky Mountain clubrush

Habitat/Range: Lake and pond shorelines in the steppe and montane zones (BGxh1, IDFmw2); rare in SC BC, known only from Shuswap Lake and Osoyoos Lake area; S disjunctly to OH, MO, TX, CO, UT and CA.

Global/Provincial Rank: G5 S1 Status: Red

Notes: This species, which is disjunct from its main range in the U.S., is treated as a native plant by the CDC since the BC habitat appears to be identical with its habitat elsewhere.



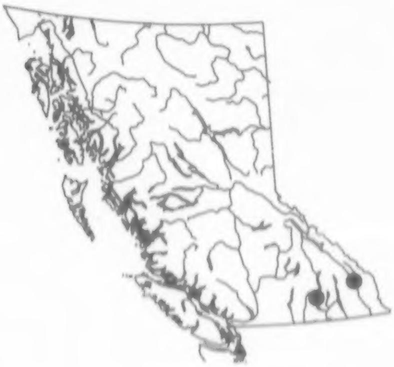


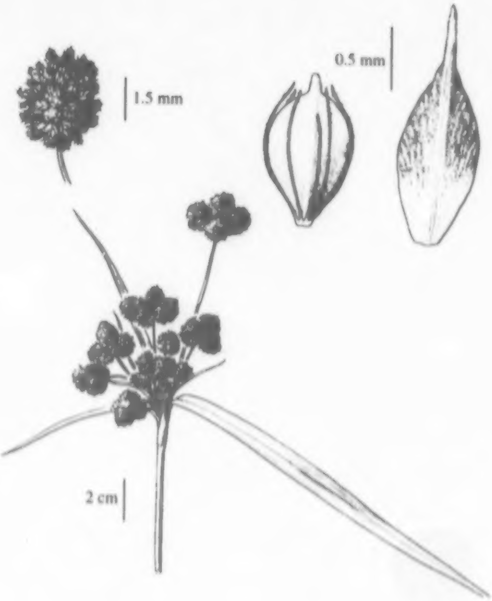
***Scirpus pallidus* (Britt.) Fern.** (*S. atrovirens* Willd. var. *pallidus* Britt.)

pale bulrush

Habitat/Range: Swamps and wet meadows in the montane zone (ICHdw, IDFdm2); rare in SE BC; E to ON and S to PA, MO, TX, UT, NM, AZ, ID and NE OR.

Global/Provincial Rank: G5 S1 Status: Red



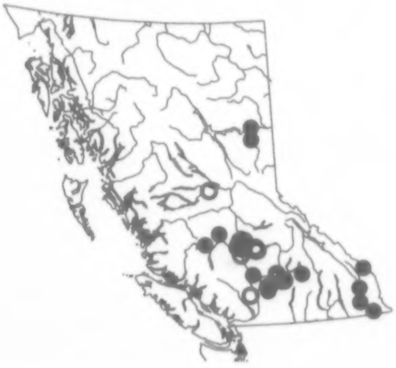


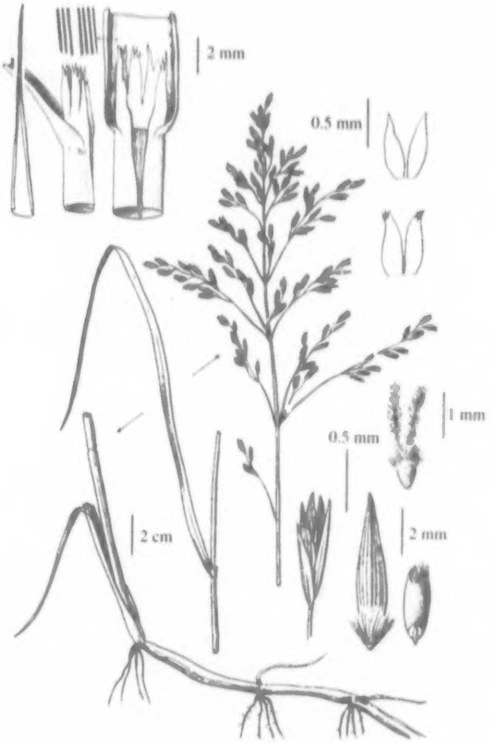
***Scolochloa festucacea* (Willd.) Link** (*Fluminea festucacea* [Willd.] A.S. Hitchc.)

rivergrass

Habitat/Range: Ponds, marshes, lakeshores and streamsides in the steppe and montane zones (BGxh2, BGxh3, BGxw1, BWBSmw1, IDFdk1, IDFdk3, IDFdk4, IDFdm2, IDFxh2, IDFxm, PPdh2, SBPSxc, SBSdk); rare in EC, SC and SE BC; N to AK, YT and NT, E to SK and S to IA, KS, MT, ID and OR.

Global/Provincial Rank: G5 S2 Status: Red



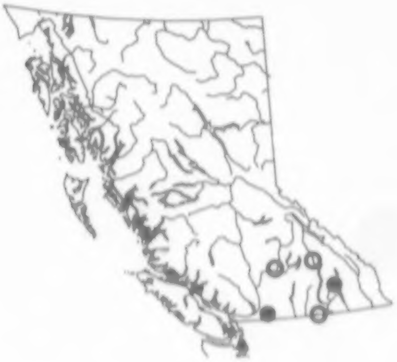


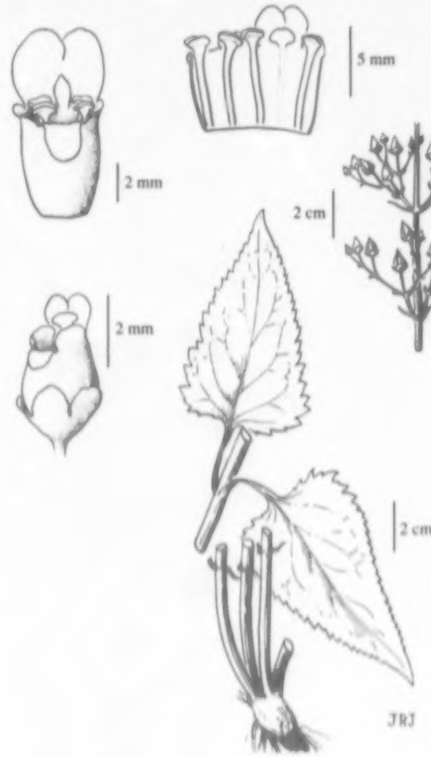
Scrophularia lanceolata Pursh

lance-leaved figwort

Habitat/Range: Moist to mesic roadsides, clearings, thickets and forest edges in the lowland and montane zones (CWHms1, ICHmw2, ICHmw3, IDFxh1, IDFxh2); rare in SC BC; E to PQ and NS and S to VT, PA, NC, IN, IO, OK, NM, UT, NV and CA.

Global/Provincial Rank: G5 S2S3 Status: Blue



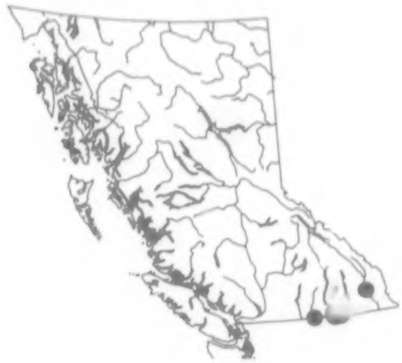


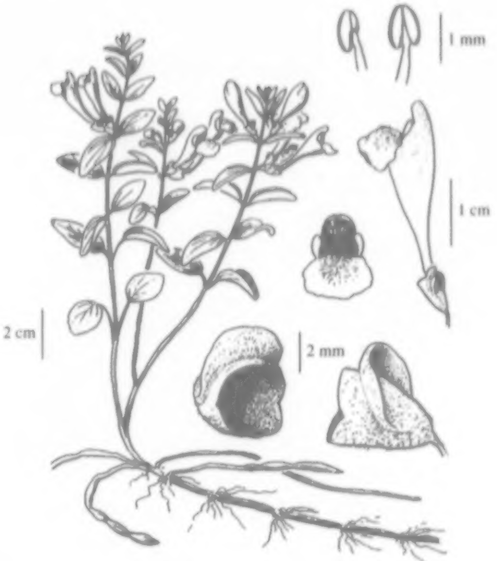
Scutellaria angustifolia Pursh

narrow-leaved skullcap

Habitat/Range: Dry rocky areas in the lower montane zone (ICHdw, ICHxw, PPdh2); rare in SE BC; S to ID and OR.

Global/Provincial Rank: G5 S2S3 Status: Blue



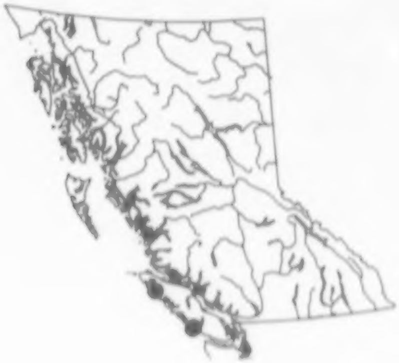


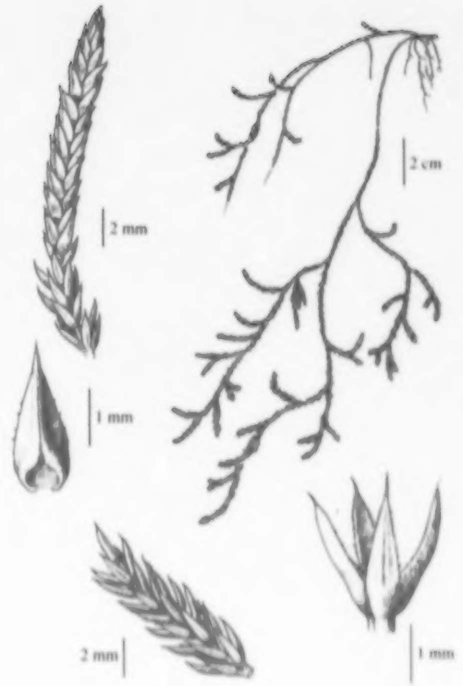
Selaginella oregana **D.C. Eaton**

Oregon selaginella

Habitat/Range: Moist tree trunks and branches and shady rocks in the lowland zone (CWHvh1); rare in coastal BC, known only from the Broken Islands (Barkley Sound) and W coast of Vancouver Island; S to N CA.

Global/Provincial Rank: G4 S2S3 Status: Blue





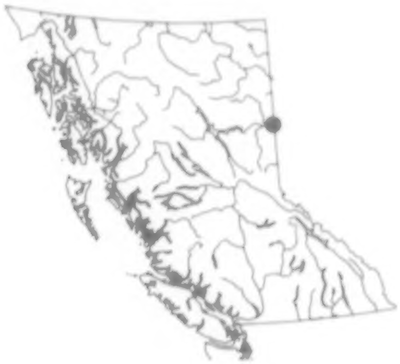
Selaginella rupestris **(L.) Spring**

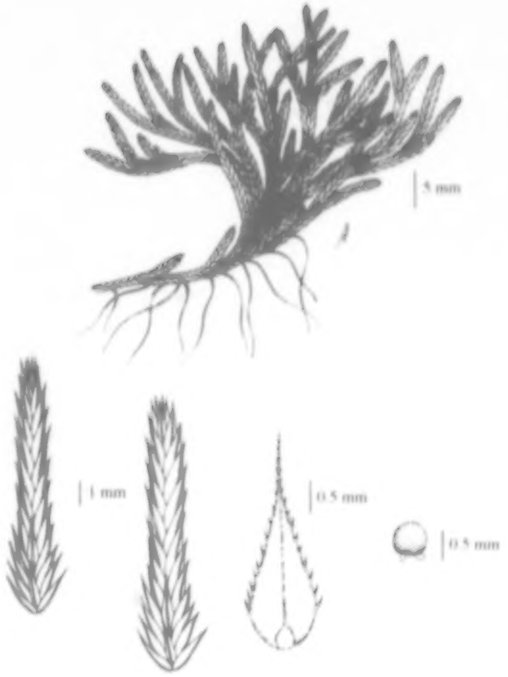
rock selaginella

Habitat/Range: Dry grassy ridges in the montane zone (BWBSmw1); rare in NE BC, known only from Clayhurst Ecological Reserve; E to PQ and S to MA, ME, PA, NC, GA, AL, MS, AR, OK and WY.

Global/Provincial Rank: G5 S1 Status: Red

Notes: This species was first collected in BC in 2001 by F. Lomer.





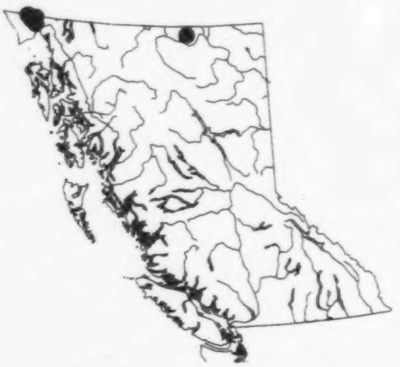
Senecio atropurpureus **(Ledeb.) Fedtsch.** (*S. atropurpureus* ssp. *frigidus* [Richards.] Hult., *S. kjellmanii* Pors.)

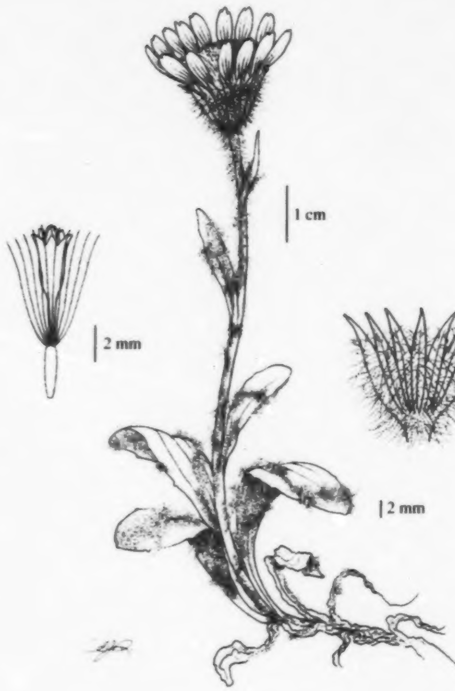
purple-haired groundsel

Habitat/Range: Wet to moist bogs, fens and meadows in the montane to alpine zones (AT, SWbdk); rare in extreme N BC; amphiberingian, N to AK, YT and NT; NE Asia.

Global/Provincial Rank: G5 S2S3 Status: Blue

Notes: Douglas (1982) demonstrated that the infraspecific taxa treated by Hulten (1968) and Welsh (1974) are unworthy of recognition.





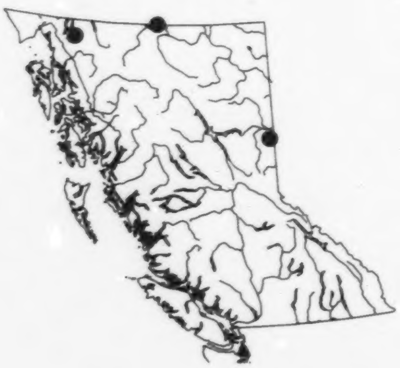
Senecio congestus **(R. Br.) DC.**

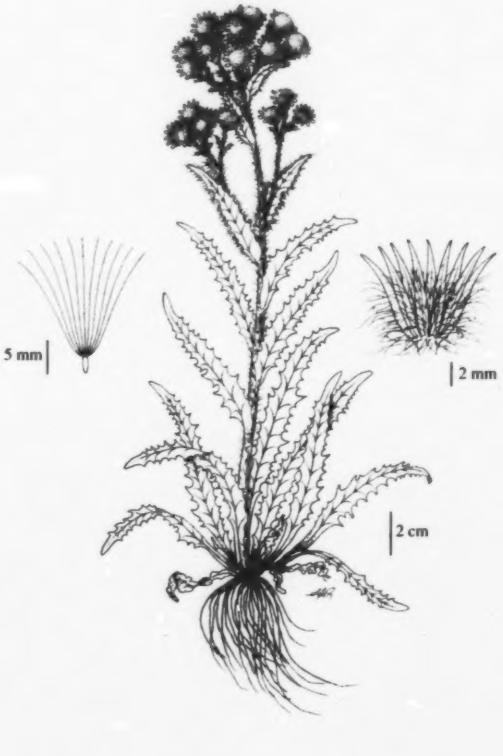
marsh fleabane

Habitat/Range: Wet to moist streambanks, lakeshores, ponds and marshes in the montane zone (BWBSdk1, BWBSdk2, BWBSmw1); rare in N BC; circumboreal, N to AK, YT and NT and E to PQ; Eurasia.

Global/Provincial Rank: G5 S2S3 Status: Blue

Notes: For colour illustration see White and Williams (1974).





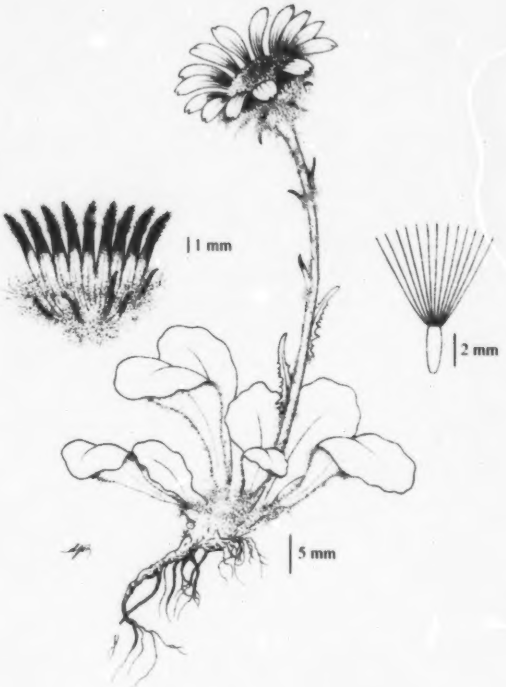
***Senecio conterminus* Greenm.** (*Packera contermina* [Greenm.] J.F. Bain)

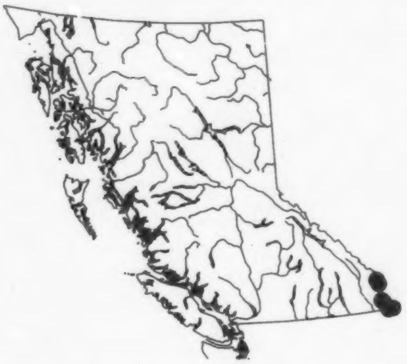
high alpine butterweed

Habitat/Range: Dry rocky slopes and ridges in the subalpine and alpine zones (AT, ESSFdk, ESSFdkp, MSdk); locally frequent in extreme SE BC; E to SW AB and S to MT.

Global/Provincial Rank: G3 S2S3 Status: Blue

Notes: For a comprehensive discussion of the history of this complex group of species, which includes *S. conterminus, S. cymbalarioides, S. cymbalaria, S. hyperborealis* and *S. ogotorukensis*, see Packer (1972) and Douglas (1982, pp. 92 and 170).





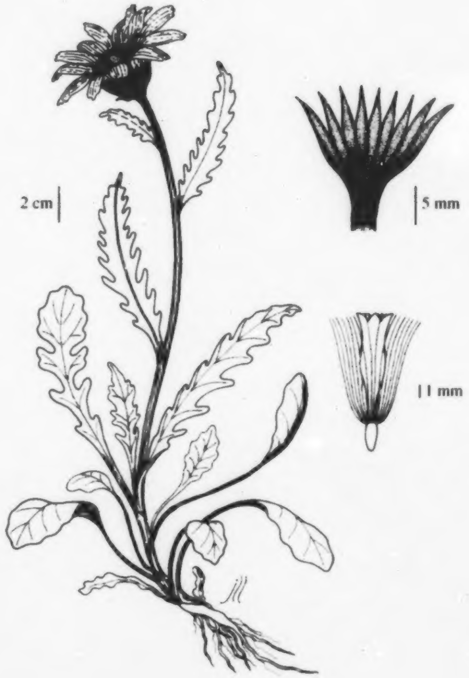
***Senecio cymbalaria* Pursh** (*Packera cymbalaria* [Pursh] W.A. Weber & A. Löve, *Senecio resedifolius* Less.)

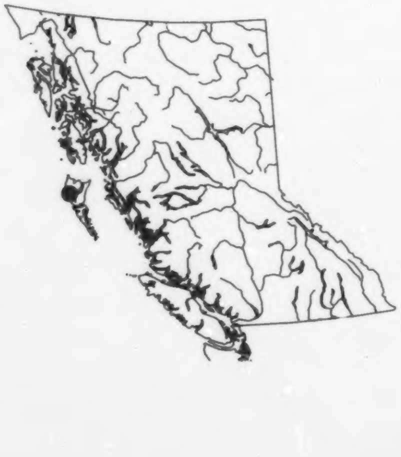
northern butterweed

Habitat/Range: Moist meadows and bogs in the lowland zone (CWHvh2); rare on the Queen Charlotte Islands, known only from Port Chanal; amphiberingian, N to AK, YT and NT; NE Asia.

Global/Provincial Rank: G5 S2S3 Status: Blue

Notes: This species belongs to an extremely difficult complex and differs from its more southern relative, *S. cymbalarioides* Buek *non* Nutt. by its generally smaller stature, purplish involucres and more consistently purplish pigmentation of the stems and leaves. For a discussion of the problems within this much confused complex see Packer (1972) and Douglas (1982, pp. 92 and 170).





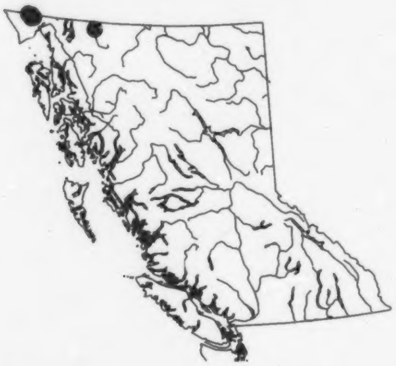
***Senecio fuscatus* Hayek** (*S. lindstroemii* [Ostenf.] Pors., *S. tundricola auct. non* Tolm.)

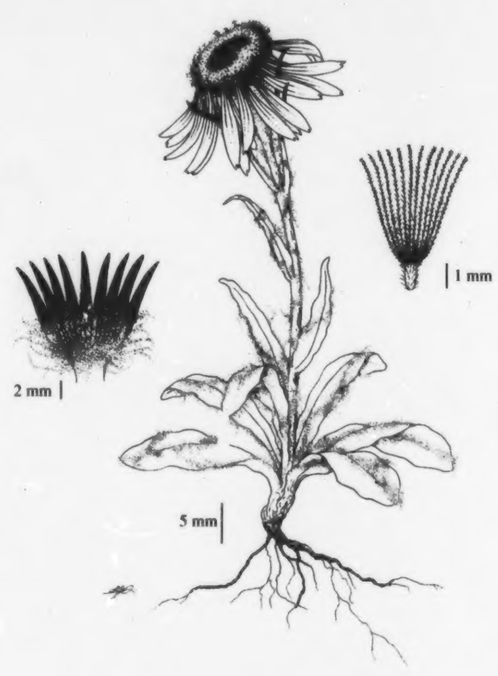
northern groundsel

Habitat/Range: Dry rocky fellfields and mesic grassy slopes in the alpine zone (AT); rare in extreme NW BC; N to AK, YT and NT, disjunct in MT and WY.

Global/Provincial Rank: G4 S2S3 Status: Blue

Notes: Although T.M. Barkley previously considered *S. fuscatus* as synonymous with the E Asian *S. tundricola* (Douglas 1982), he recently (Barkley 1994) excluded the latter from the North American flora and resurrected *S. fuscatus*. For colour illustration see Taylor and Douglas (1995).





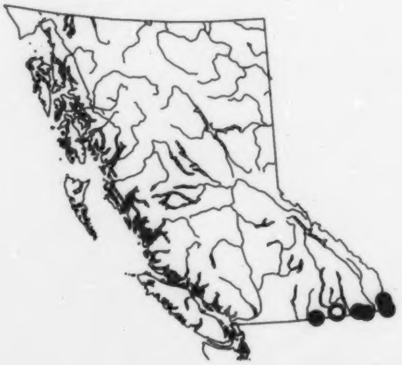
***Senecio hydrophiloides* Rydb.** (*Senecio foetidus* T.J. Howell, *S. foetidus* var. *foetidus* and var. *hydrophiloides* [Rydb.] T.M. Barkley *ex* Cronq.)

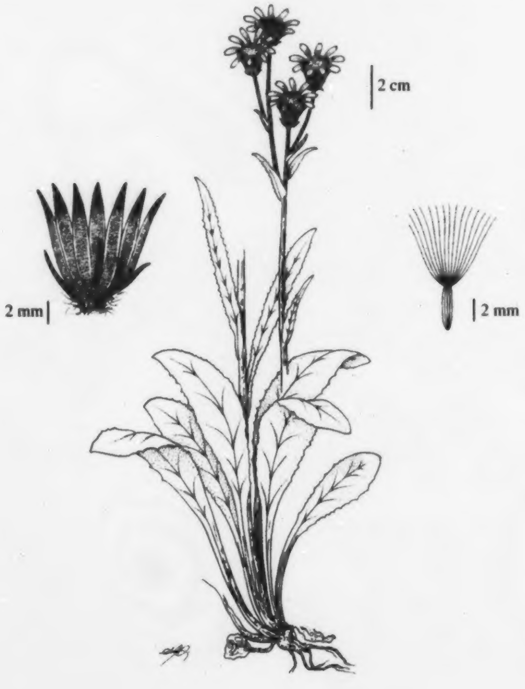
sweet-marsh butterweed

Habitat/Range: Wet to moist meadows and forest openings in the montane and lower subalpine zones (ESSFdk, ICHdw, ICHmk1, MSdk, PPdh1); rare in SE BC; E to AB and S to ID and OR.

Global/Provincial Rank: G4G5 S1 Status: Red

Notes: The two weak varieties previously recognized by Douglas (1982, 1989 and others) have recently been merged by Barkley (1994). The latter treatment has been followed here.





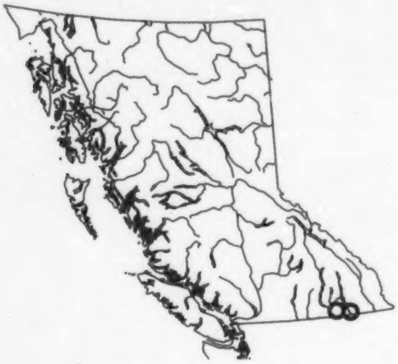
Senecio hydrophilus Nutt.

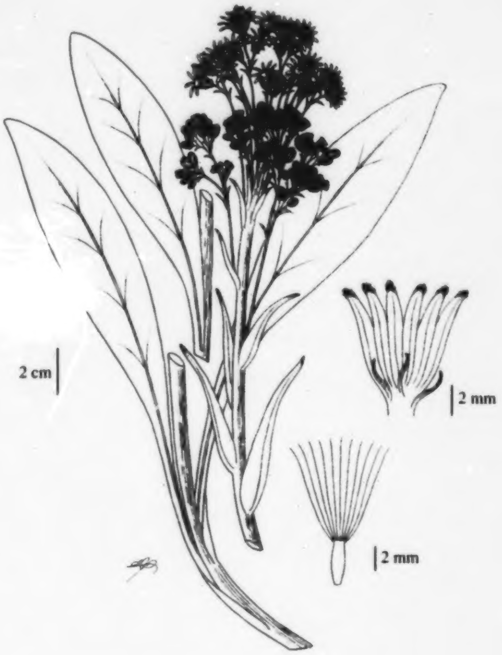
alkali-marsh butterweed

Habitat/Range: Wet, often alkaline swamps and meadows in the montane zone (ICHdw, ICHxw); rare in extreme SE BC, known only from Salmon River and Kootenay River; S to SD, WA and CO.

Global/Provincial Rank: G5 SH Status: Red

Notes: This species was last collected in 1929 at Kootenay River Flats.





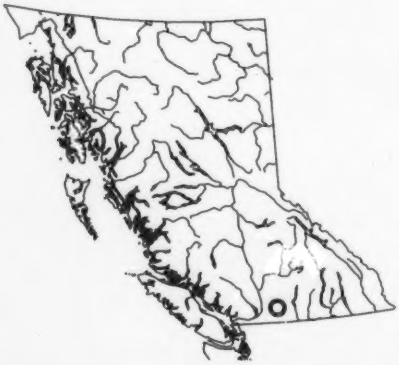
Senecio integerrimus Nutt. var. *ochroleucus* (A. Gray) Cronq.

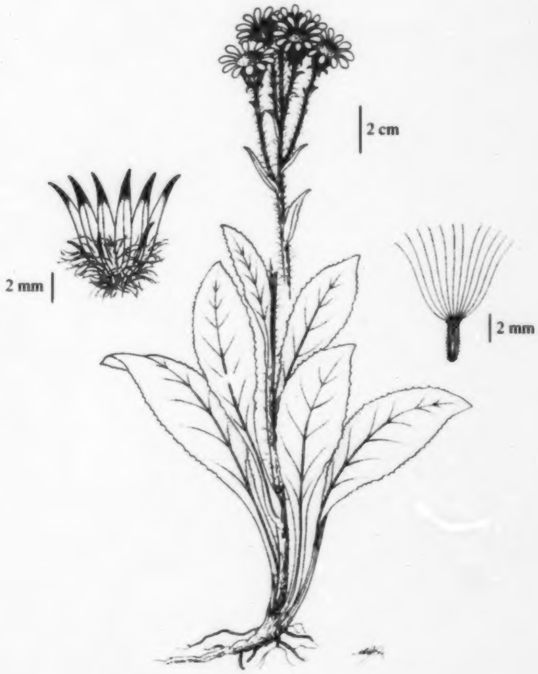
western groundsel

Habitat/Range: Moist to dry grasslands, shrublands, forest openings and meadows in the steppe to lower subalpine zones (IDFxh1); rare in SC BC; E to SK and S to MN and CA.

Global/Provincial Rank: G5T? SH Status: Red

Notes: This variety has not been collected in BC since 1897.



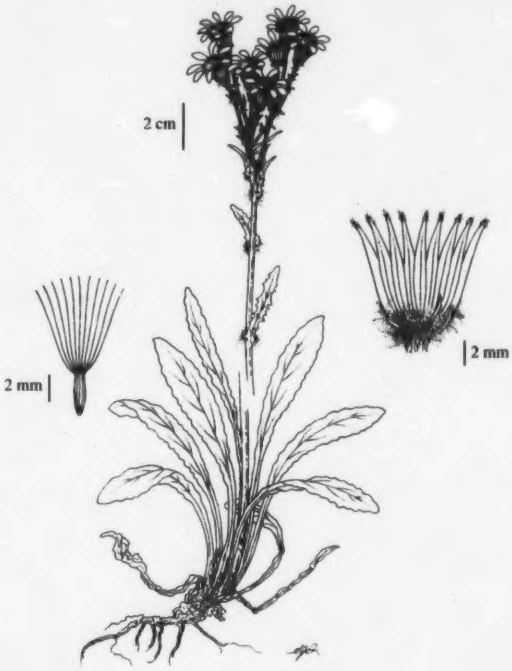


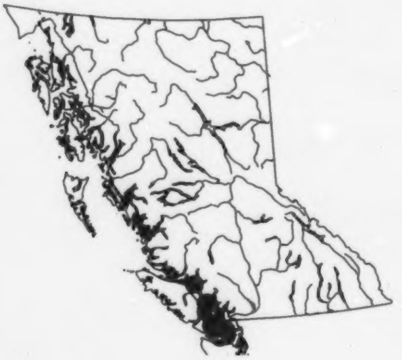
***Senecio macounii* Greene** (*Packera macounii* [Greene] W.A. Weber & A. Löve)

Macoun's groundsel

Habitat/Range: Dry, open forests or salt marsh edges in the lowland zone (CDFmm, CWHmm2, CWHxm1, CWHxm2); rare on S Vancouver Island, Texada Island and adjacent mainland; S to OR.

Global/Provincial Rank: G5 S3 Status: Blue



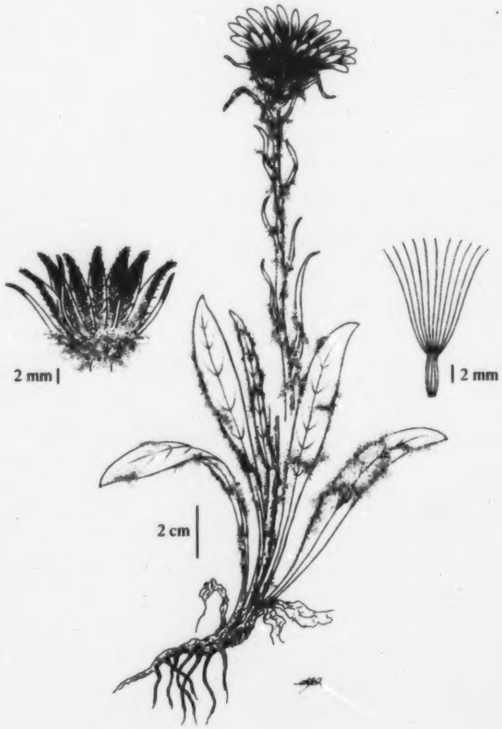


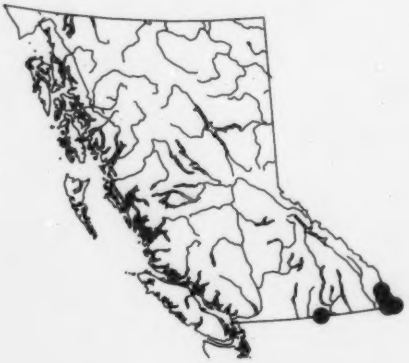
***Senecio megacephalus* Nutt.**

large-headed groundsel

Habitat/Range: Dry rocky slopes, meadows and forest openings in the montane to alpine zones (AT, ESSFdk, ESSFdkp, MSdk); rare in SE BC; E to SW AB and S to MT and ID.

Global/Provincial Rank: G4? S2S3 Status: Blue



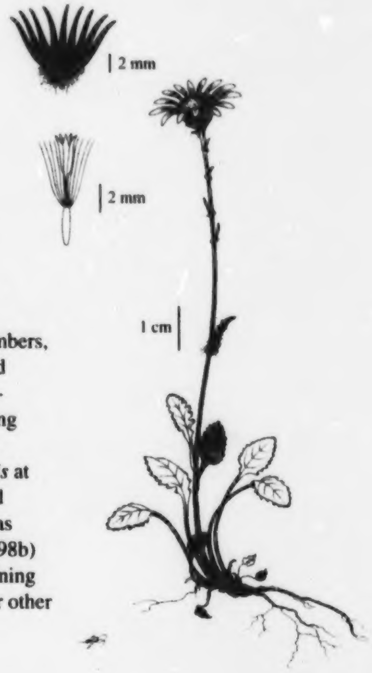


***Senecio moresbiensis* (Calder & Tayl.) G.W. Dougl. & G. Ruyle-Dougl.**
(Packera moresbiensis [Calder & Tayl.] J.F. Bain, *Senecio cymbalarioides* Buek ssp. *moresbiensis* Calder & Tayl.)

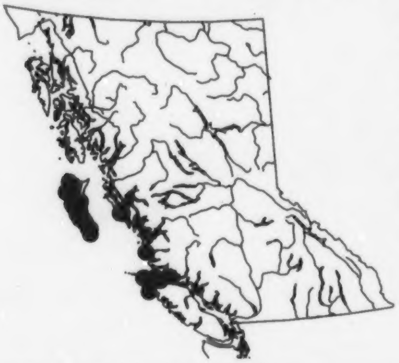
Queen Charlotte butterweed

Habitat/Range: Moist to wet bogs and slopes in the lowland to alpine zones (AT, CWHvh1, CWHvh2, CWHvm1, CWHwh1, MHwh); locally rare on the Queen Charlotte Islands, adjacent mainland and extreme N Vancouver Island; endemic to BC and SE AK.

Global/Provincial Rank: G3 S3 Status: Blue



Notes: This species was originally described as a subspecies of *S. cymbalarioides* (Calder & Taylor 1965) and recently has been submerged within that species (Barkley 1994). It would appear, however, that if *S. moresbiensis* is to be treated as part of another species complex it would be with *S. cymbalaria*. The latter taxa have similar chromosome numbers, purplish-pigmented leaves and slightly overlapping ranges — differences markedly separating them from *S. cymbalarioides*. Recognition of *S. moresbiensis* at the species level (Douglas and Ruyle-Douglas 1978a, Douglas 1982, Douglas *et al.* 1989, 1998b) is easily justified when examining species differences among our other *Senecio* species.

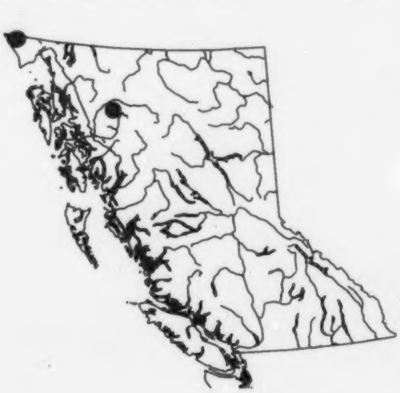


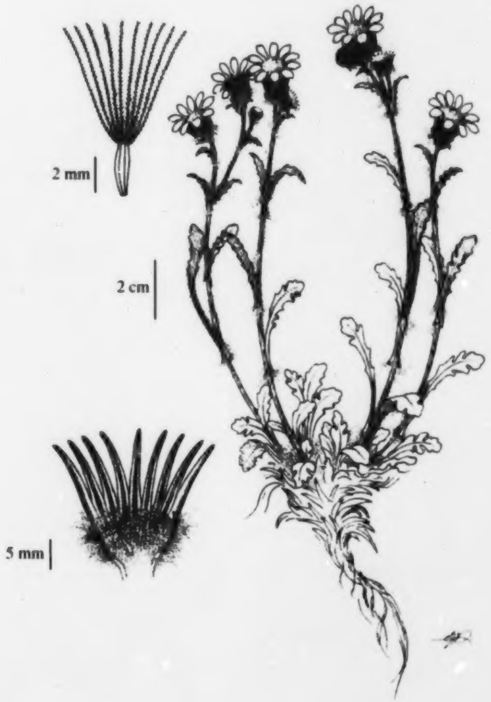
***Senecio ogotorukensis* Packer** (*Packera ogotorukensis* [Packer] A.& D. Löve)

Ogotoruk Creek butterweed

Habitat/Range: Dry river terraces, gravel bars and rocky slopes from the montane to alpine zones (AT, BWBSvk); rare in NW BC; N to AK, YT and NT.

Global/Provincial Rank: G? S2S3 Status: Blue



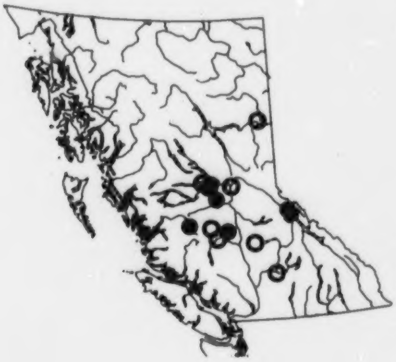


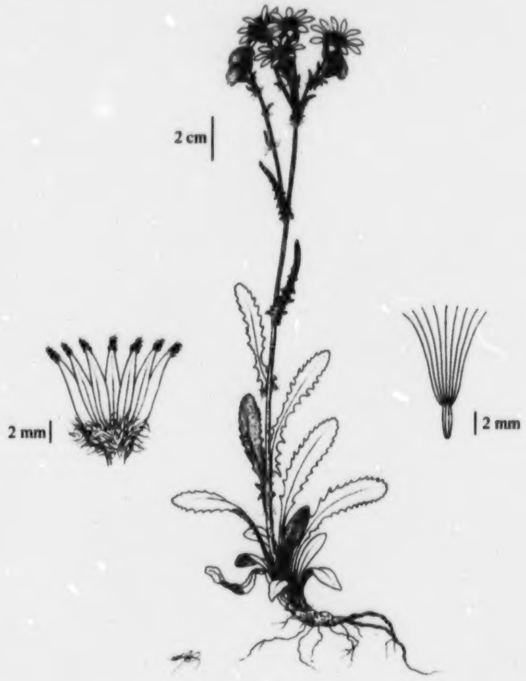
Senecio plattensis **Nutt.** (*Packera plattensis* [Nutt.] W.A. Weber & A. Löve)

plains butterweed

Habitat/Range: Dry open meadows and forests in the steppe and montane zones (BGxh2, BWBSmw1, IDFdk3, IDFdk4, SBPSxc, SBSdh1, SBSdk, SBSdw2, SBSmh); rare in EC BC; disjunct, E to S ON and S to LA, TX, MT and AZ.

Global/Provincial Rank: G5 S2S3 Status: Blue





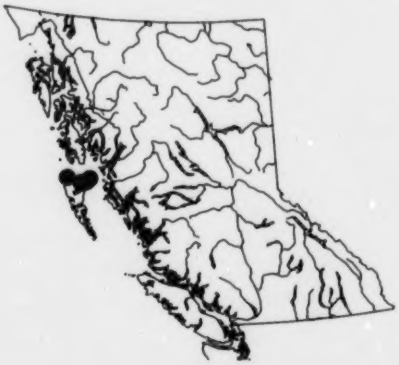
Senecio pseudoarnica **Less.**

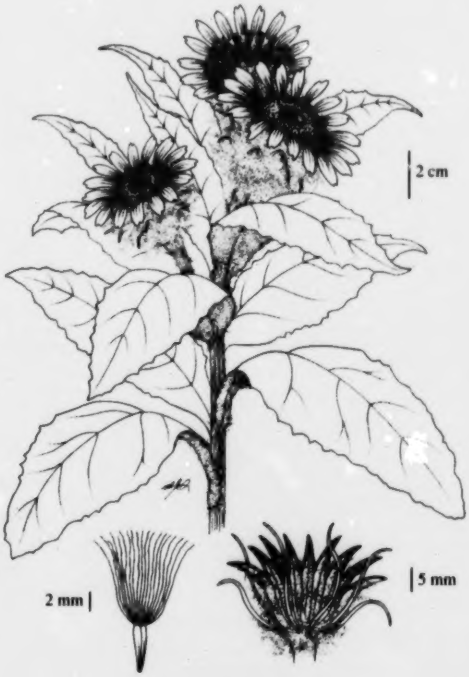
beach groundsel

Habitat/Range: Moist to mesic sand dunes, beaches and tidal flats in the lowland zone (CWHvh2, CWHwh1); rare on the N Queen Charlotte Islands; amphiberingian, N to AK, disjunct on the coasts of Labr., NF, PQ, NS and NB; NE Asia.

Global/Provincial Rank: G5 S2S3 Status: Blue

Notes: For colour illustration see White and Williams (1974).



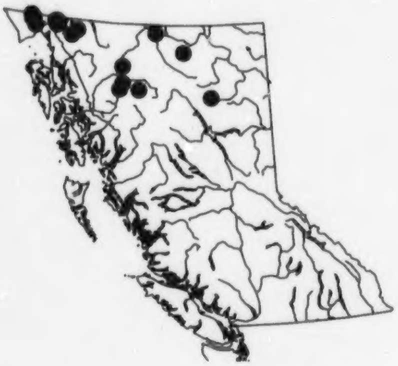


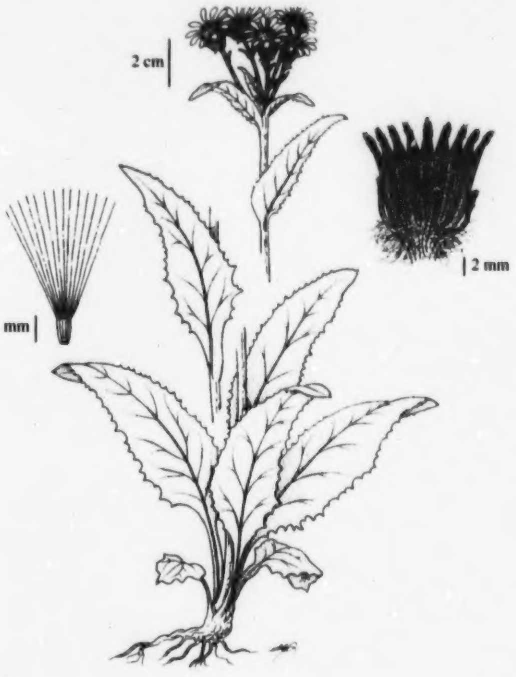
Senecio sheldonensis **Pors.**

Mount Sheldon butterweed

Habitat/Range: Wet to moist meadows and forest openings in the montane to alpine zones (AT, BWBSdk1, SBSun, SWBdk, SWBmk, SWBun); rare in N BC; N to YT and SW NT.

Global/Provincial Rank: G5 S2S3 Status: Blue



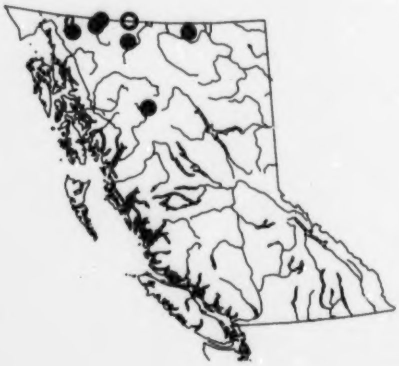


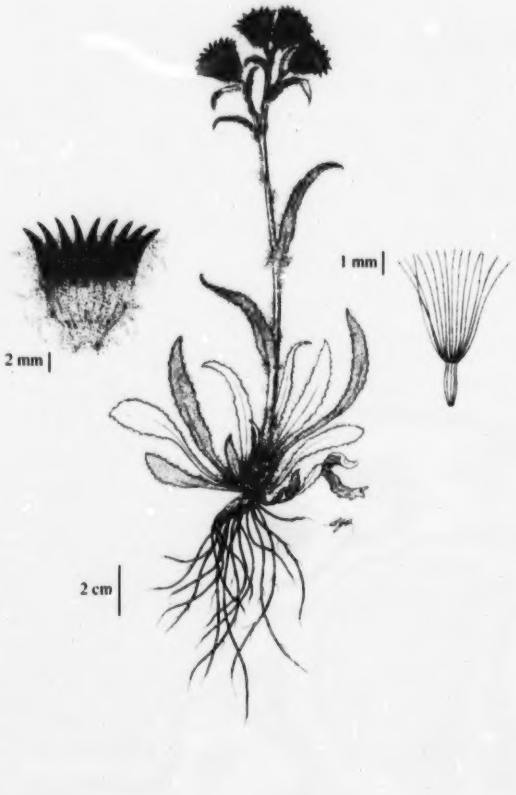
Senecio yukonensis **Pors.** (*S. alaskanus* Hult.)

Yukon groundsel

Habitat/Range: Moist fellfields and snowbed sites in the alpine zone (AT); rare in N BC; N to AK, YT and NT.

Global/Provincial Rank: G4G5Q S2S3 Status: Blue





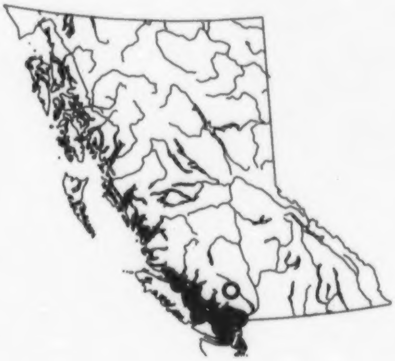
***Sidalcea hendersonii* S. Wats.**

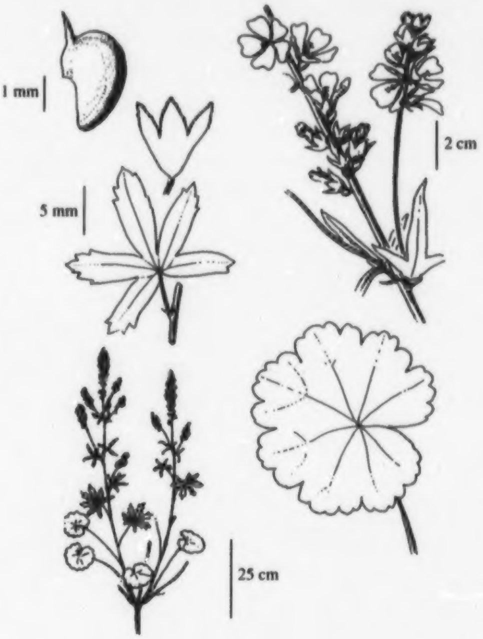
Henderson's checker-mallow

Habitat/Range: Wet meadows and tidal flats in the lowland zone (CDFmm, CWHxm1, CWHxm2); rare in SW BC; S to OR.

Global/Provincial Rank: G3G4 S3 Status: Blue

Notes: For colour illustration see Clark (1976).



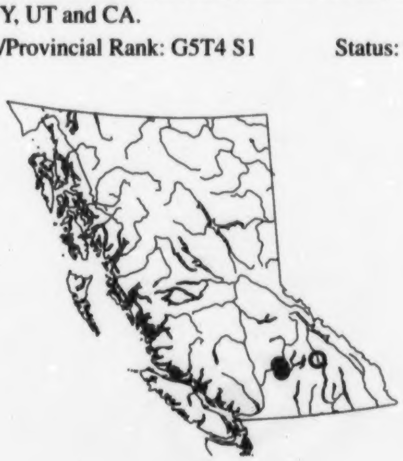


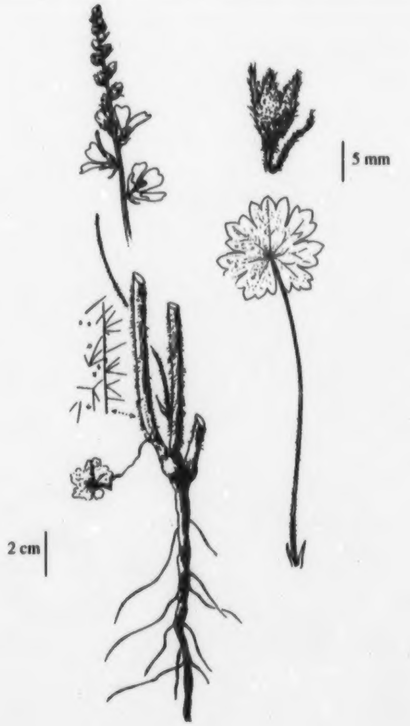
***Sidalcea oregana* (Nutt. *ex* T. & G.) A. Gray var. *procera* C.L. Hitchc.** (*S. oregana* ssp. *oregana* var. *procera* C.L. Hitchc.)

Oregon checker-mallow

Habitat/Range: Dry grasslands, shrublands and forest openings in the steppe and lower montane zones (BGxh2, ICHmw3, PPxh2); rare in SC BC; S to WY, UT and CA.

Global/Provincial Rank: G5T4 S1 Status: Red



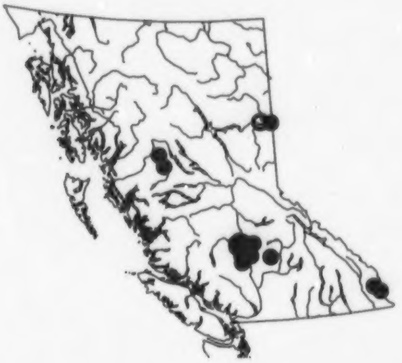


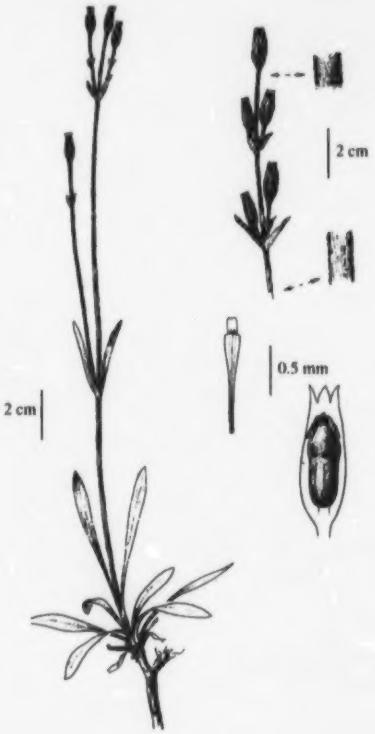
Silene drummondii **Hook. var.** ***drummondii*** (*Lychnis drummondii* [Hook.] S. Wats., *Melandrium drummondii* [Hook.] Hult.)

Drummond's campion

Habitat/Range: Dry sites in the steppe to alpine zones (BGxh3, BGxw2, BWBSmw1, ICHmc2, IDFdk3, IDFdk4, IDFxm, MSdk, MSxv, SBPSmk, SBSdk); rare throughout BC east of the Coast-Cascade Mountains; E to S MB and S to NE, CO, AZ and OR.

Global/Provincial Rank: G5T5 S3 Status: Blue



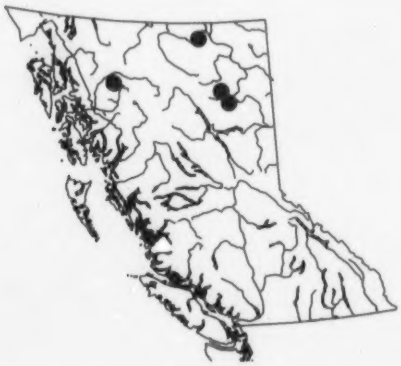


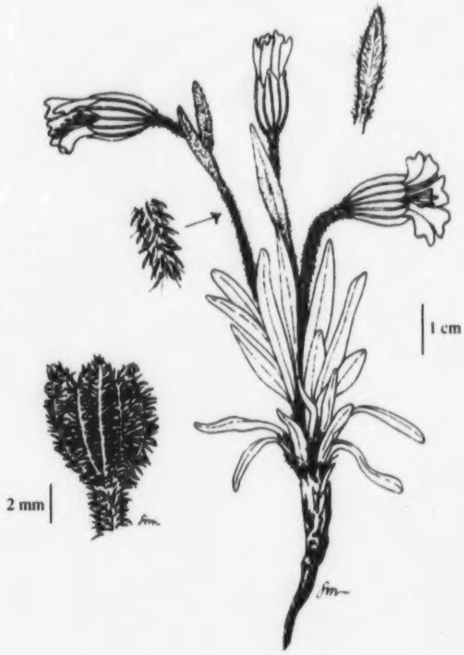
Silene involucrata **(Cham. & Schlecht.) Bocquet ssp.** ***involucrata*** (*Lychnis furcata* [Raf.] Fern., *Silene furcata* Raf.)

arctic campion

Habitat/Range: Mesic meadows and rocky cliffs in the alpine zone (AT); rare in N BC; N to AK, YT and NT and E to PQ.

Global/Provincial Rank: G5T5 S2S3 Status: Blue



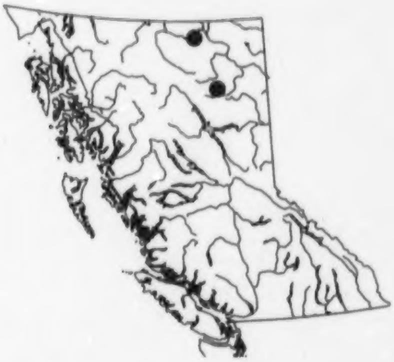


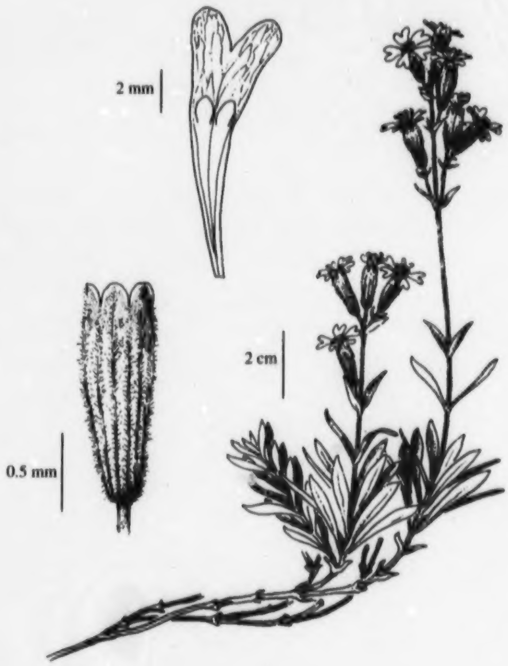
Silene repens **Patrin *ex* Pers.**

pink campion

Habitat/Range: Dry meadows and open forests from the montane to alpine zones (AT, BWBSmw2); rare in NE BC, known only from Nevis Creek and Toad Mountain, Mile 422 Alaska Highway; circumpolar, N to AK, YT and NT and S to MT and WY; Eurasia.

Global/Provincial Rank: G5 S2S3 Status: Blue





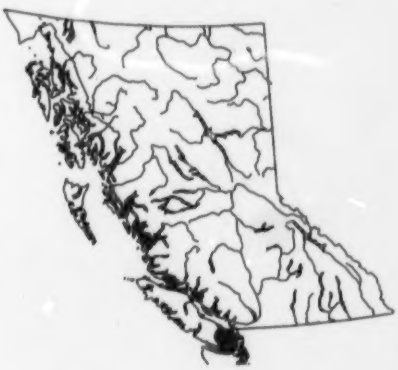
Silene scouleri **Hook. ssp. *grandis* (Eastw.) C.L. Hitchc. & Maguire** (*S. grandis* Eastw., *S. pacifica* Eastw., *S. scouleri* var. *pacifica* [Eastw.] C.L. Hitchc.)

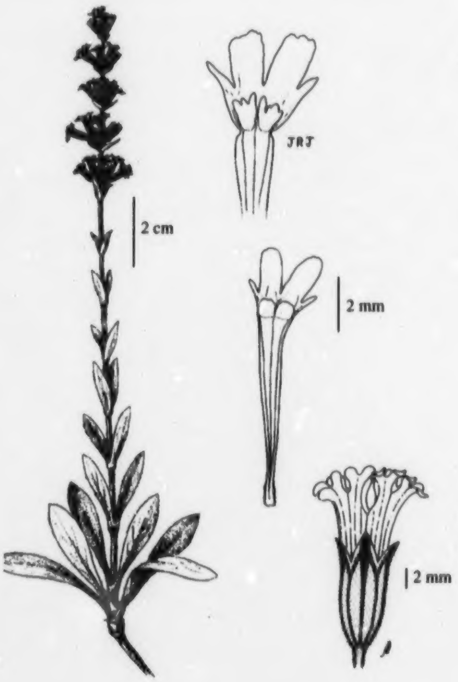
Scouler's campion; Scouler's catchfly

Habitat/Range: Dry, gravelly sites in the lowland zone (CDFmm); rare in SW BC, known only from Vancouver Island and the Gulf Islands; S to CA.

Global/Provincial Rank: G5T? S1 Status: Red

Notes: For colour illustration see Clark (1976).





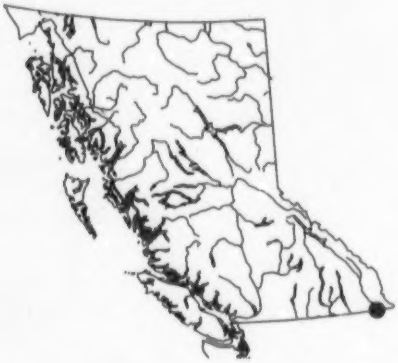
***Silene spaldingii* S. Wats.**

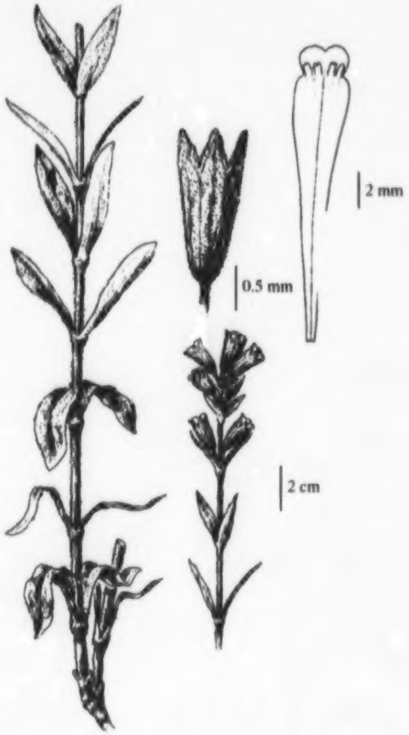
Spalding's campion

Habitat/Range: Dry grasslands in the montane zone (IDFdm2); rare in SE BC, known only from Tobacco Plains; S to MT, ID and OR.

Global/Provincial Rank: G2 S1 Status: Red

Notes: This species was first observed for BC by L. Roe in 1992 and later (1995) collected by M. Miller.



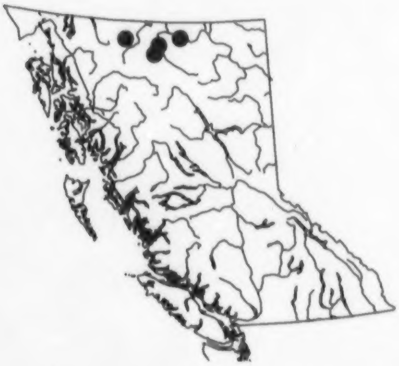


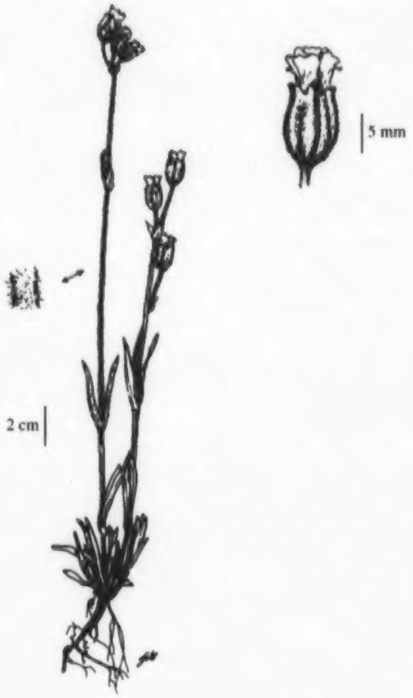
***Silene taimyrensis* (Tolm.) Bocquet** (*Lychnis triflora* R. Br. *ex* Sommerf., *L. dawsonii* [B.L. Robins.] J.P. Anders., *Melandrium ostenfeldii* Pors., *M. taimyrensis* Tolm., *Silene sorensensis* [Boivin] Boquet)

Taimyr campion

Habitat/Range: Dry, open, calcareous, sandy or gravelly slopes from the montane to alpine zones (AT, BWBSdk2, SWBun); rare in NW BC; amphiberingian, N to AK, YT and NT and E to Greenland; E Asia.

Global/Provincial Rank: G4? S2S3 Status: Blue



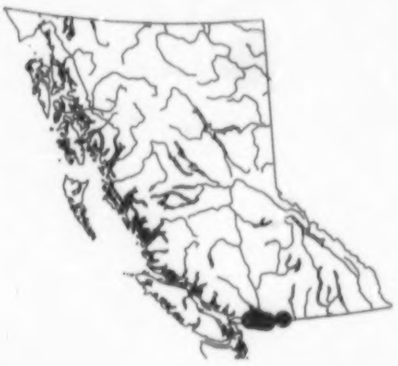


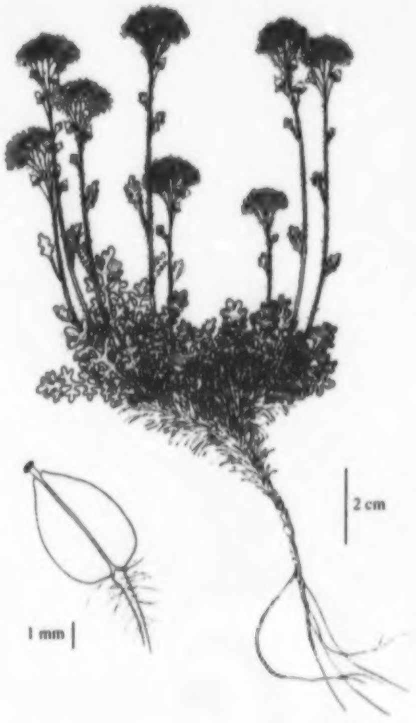
***Smelowskia ovalis* M.E. Jones**

short-fruited smelowskia

Habitat/Range: Mesic to dry rocky slopes and fellfields in the alpine zone (AT); rare in SW and SC BC; S to N CA.

Global/Provincial Rank: G5 S2S3 Status: Blue



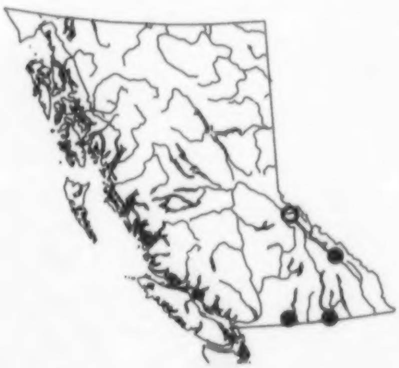


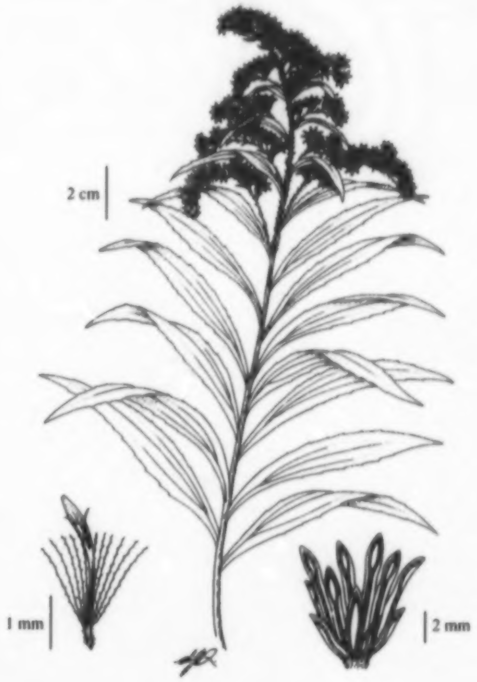
***Solidago gigantea* Ait. ssp. *serotina* (Ait.) McNeill** (*S. serotina* Ait. *non* Retz.)

smooth goldenrod; giant goldenrod

Habitat/Range: Moist meadows, streambanks and forest openings in the montane zone (ICHdw, ICHmk1, ICHmw2, IDFdk, IDFdm2, IDFxh1); rare in SC and SE BC; E to PQ and S to GA, OR and MX.

Global/Provincial Rank: G5T? S1 Status: Red



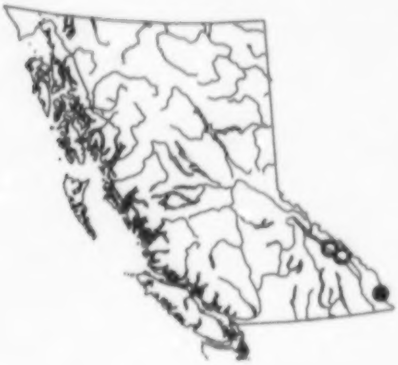


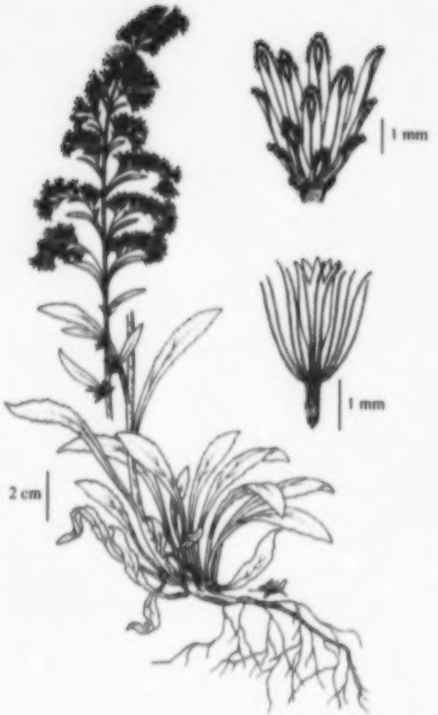
***Solidago nemoralis* Ait. ssp. *longipetiolata* (Mack. & Bush) G.W. Dougl.** (*S. decemiflora* DC., *S. nemoralis* var. *decemiflora* [DC.] Fern., *S. longipetiolata* Mack.& Bush)

field goldenrod

Habitat/Range: Mesic to dry grasslands and forest openings in the lower montane zone (ICHmk1, ICHmw1); rare in SE BC; E to NS and S to FL and TX.

Global/Provincial Rank: G5T5 S2S3 Status: Blue



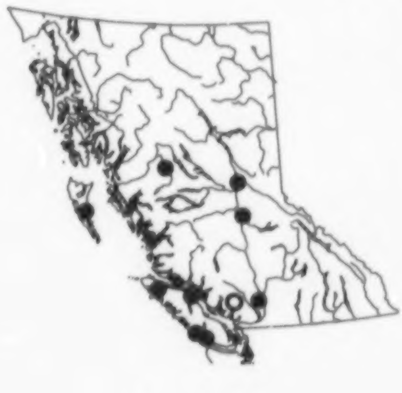


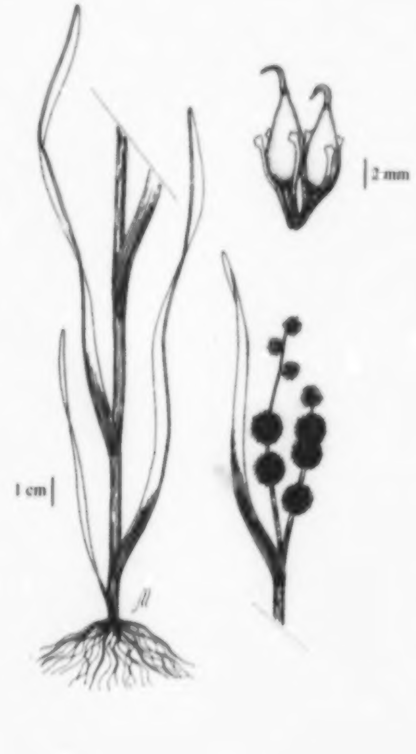
***Sparganium fluctuans* (Morong) Robins.**

water bur-reed

Habitat/Range: Ponds, lakeshores and slow-moving streams in the lowland and montane zones (CWHds1, CWHvh1, CWHvm1, CWHwh1, CWHxm2, IDFww, SBSdk, SBSdw1, SBSmk1); rare in BC south of 55°N; circumpolar, E disjunctly to NF and S to ME, MA, PA, MI, WI, MN, ID and WA; Eurasia.

Global/Provincial Rank: G5 S2S3 Status: Blue



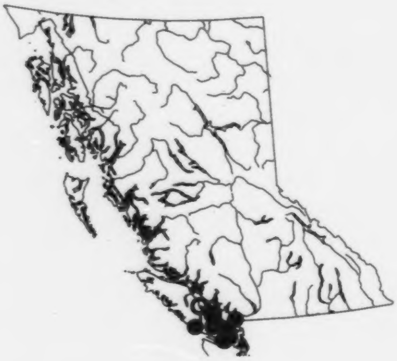


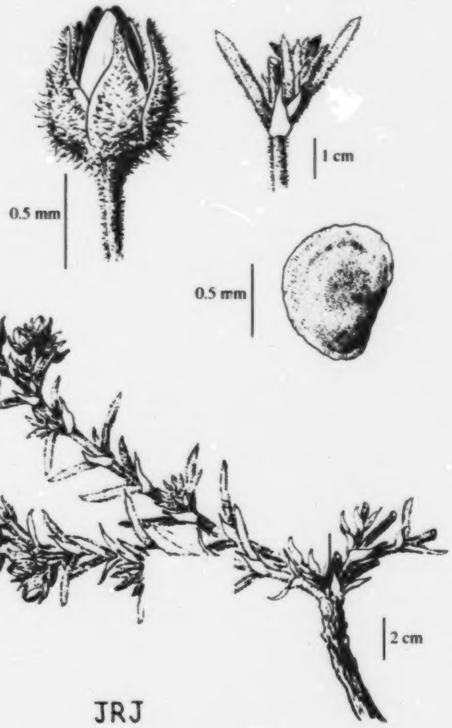
Spergularia macrotheca (Hornem.) Heynh. var. *macrotheca*

beach sand-spurry

Habitat/Range: Wet to moist salt marshes and sandy to rocky coastal beaches in the lowland zone (CDFmm, CWHvh1, CWHxm1, CWHxm2); rare in SW BC, known only on S Vancouver Island and adjacent islands; S to CA and MX.

Global/Provincial Rank: G5T? S2S3 Status: Blue



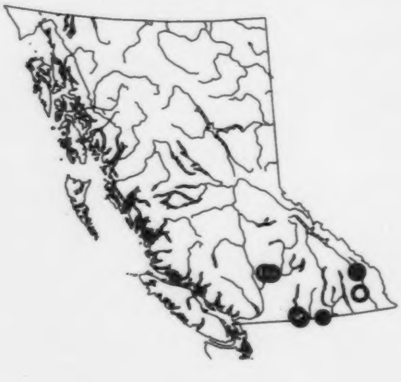


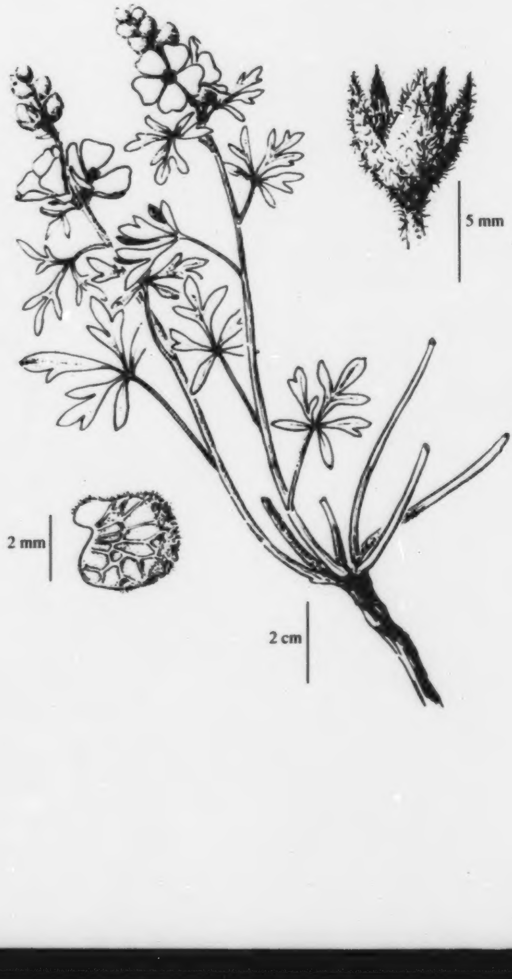
Sphaeralcea coccinea (Nutt.) Rydb.

scarlet globe-mallow

Habitat/Range: Dry grasslands, shrublands and forest openings in the steppe and lower montane zones (BGxh1, BGxh2, IDFun, IDFxh1, MSdk); rare in SC and SE BC; E to MB and S to IA, TX, UT and OR.

Global/Provincial Rank: G5? S1 Status: Red





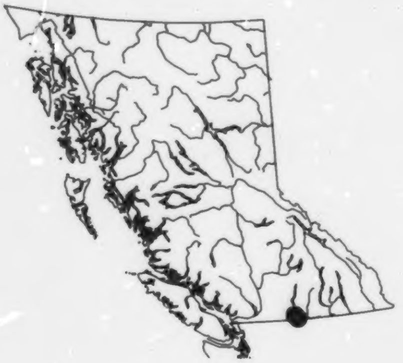
Sphaeralcea munroana **(Dougl. *ex* Lindl.) Spach *ex* A. Gray**

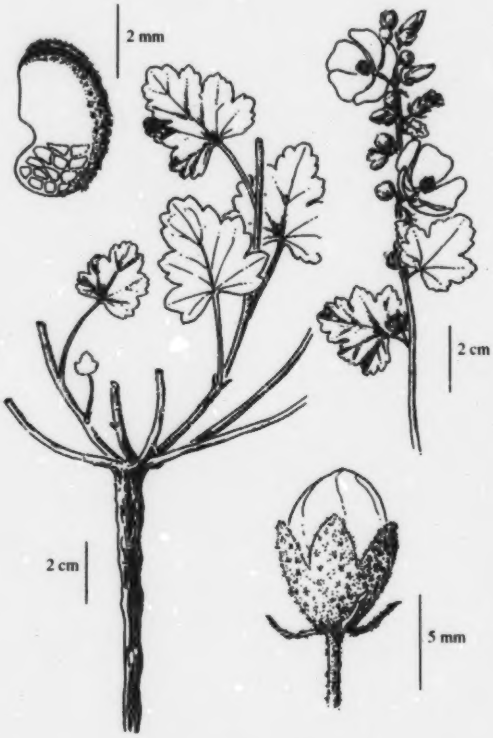
Munroe's globe-mallow

Habitat/Range: Dry grasslands, shrublands and forest openings in the steppe zone (BGxh1); rare in SC BC; S to MT, UT and CA.

Global/Provincial Rank: G4 S1 Status: Red

Notes: This species was last collected at Osoyoos in 1950



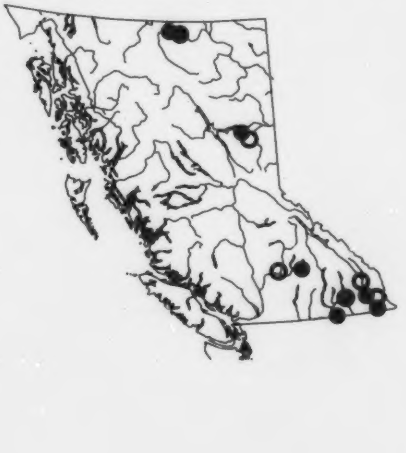


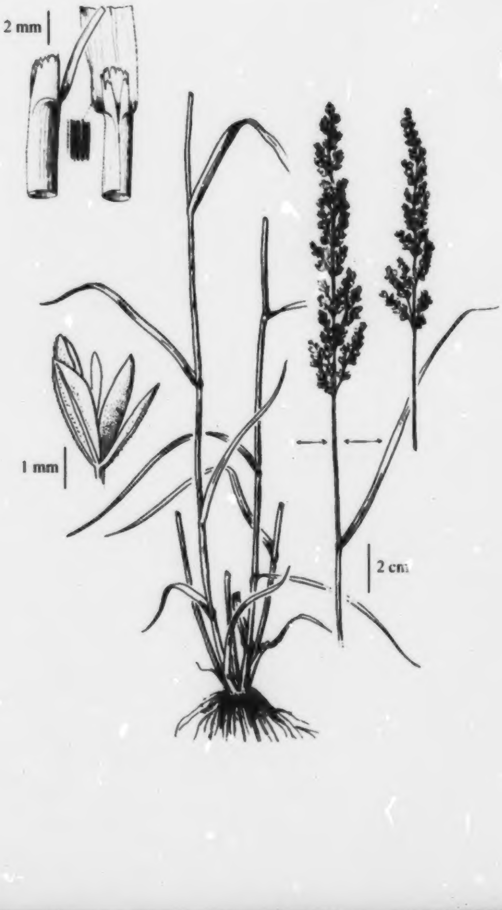
Sphenopholis intermedia **(Rydb.) Rydb.** (*S. obtusata* [Michx.] Scribn. var. *major* [Torr.] Erdman)

slender wedgegrass

Habitat/Range: Moist meadows and streambanks, shallow ponds and hot springs in the steppe and montane zones (BWBSdk2, BWBSmw1, ICHdw, ICHmk1, ICHmw2, IDFdm2, IDFxh2, PPdh2); rare in SC, SE and NE BC; N to AK, YT and NT, E to NF and S to ME, MA, PA, NC, FL, MS, LA, TX, NM, AZ and CA.

Global/Provincial Rank: G5 S2 Status: Red



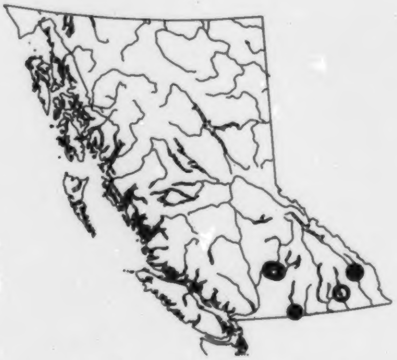


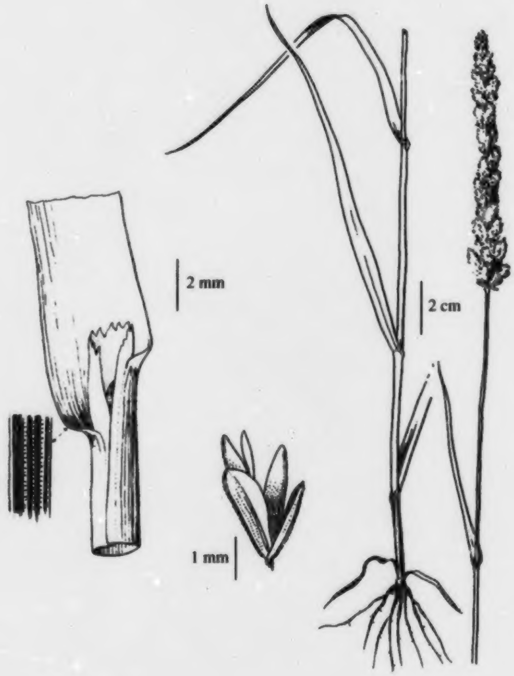
Sphenopholis obtusata **(Michx.) Scribn.**

prairie wedgegrass

Habitat/Range: Moist meadows, streambanks, shallow ponds and hot springs in the steppe and montane zones (BGxh2, ICHdw, IDFdm2); rare in SC and SE BC; E to NB and S to ME, MA, PA, NC, FL, MS, LA, TX, NM, AZ and CA.

Global/Provincial Rank: G5 S1 Status: Red



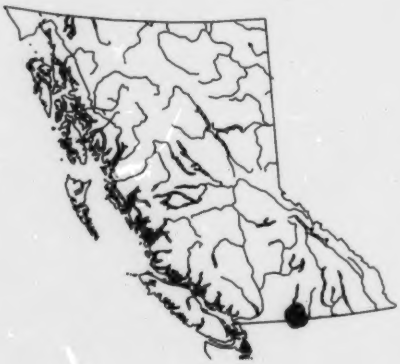


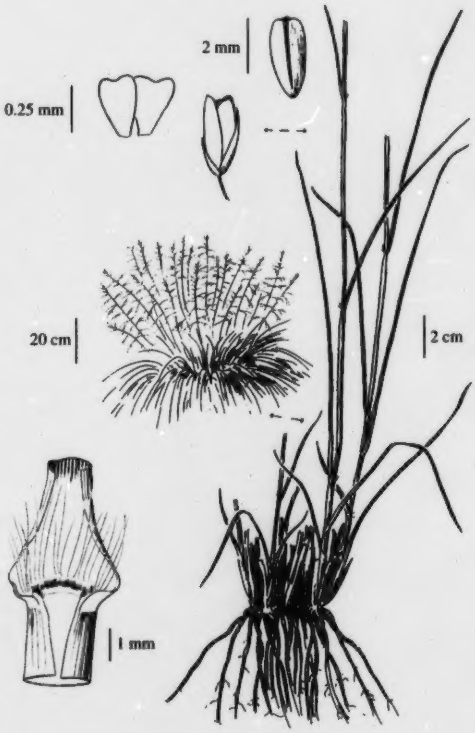
Sporobolus airoides **(Torr.) Torr.**

hairgrass dropseed

Habitat/Range: Moist to mesic, often alkaline slopes, grasslands and shrublands in the steppe zone (BGxh1); rare in SC BC; S to AR, TX, MX and CA.

Global/Provincial Rank: G5 S1 Status: Red



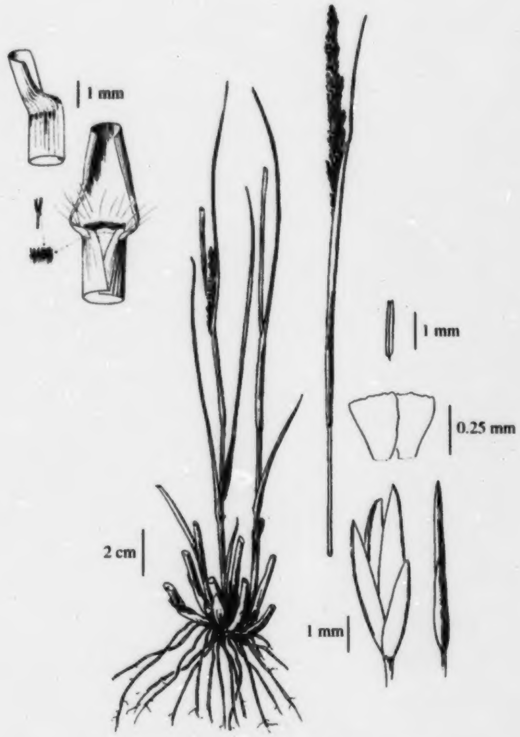


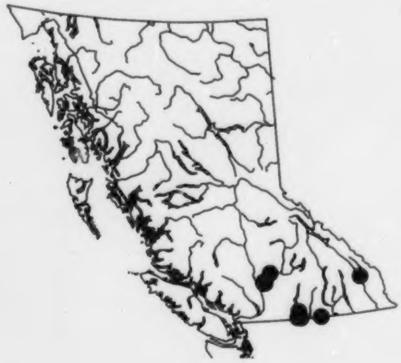
Sporobolus compositus **(Poir.) Merr. var.** ***compositus*** (*S. asper* [Michx.] Kunth)

rough dropseed

Habitat/Range: Mesic to dry grasslands and shrublands in the steppe and montane zones (BGxh1, BGxh2, IDFdm2); rare in SC and SE BC; E to PQ, NB and NS and S to MA, ME, PA, NC, GA, AL, MS, LA, TX, NM, AZ, ID and WA.

Global/Provincial Rank: G5T5 S1 Status: Red



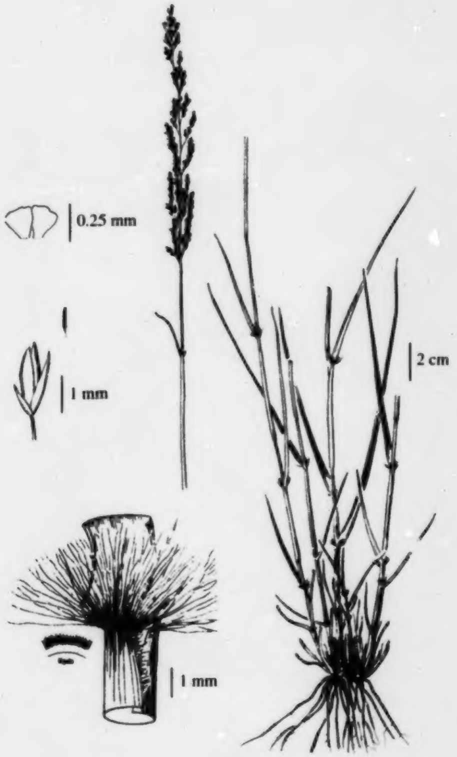


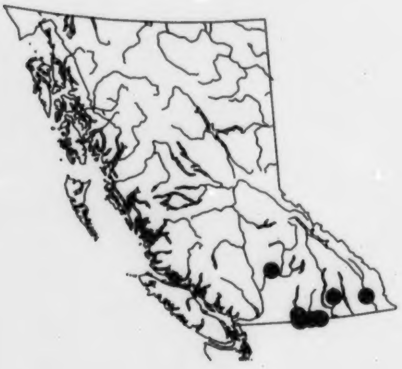
Sporobolus cryptandrus **(Torr.) A. Gray** (*S. cryptandrus* ssp. *typicus* var. *occidentalis* Jones & Fassett, *S. cryptandrus* ssp. *fuscicolus* [Hook.] E.K. Jones & Fassett)

sand dropseed

Habitat/Range: Mesic to dry grasslands and shrublands in the steppe and montane zones (BGxh1, ICHdw, PPdh1); rare in SC and SE BC; E to SW PQ and NB and S to MA, ME, PA, NC, GA, MS, LA, TX, NM, AZ and CA.

Global/Provincial Rank: G5 S3 Status: Blue



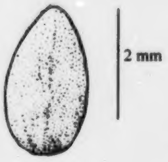


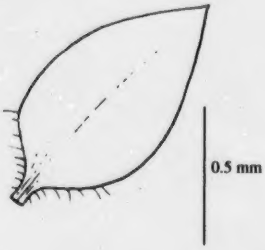
Stellaria obtusa **Engelm.**

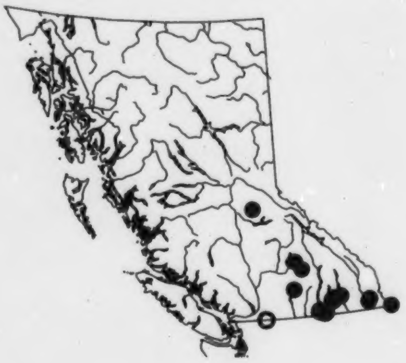
blunt-sepaled starwort

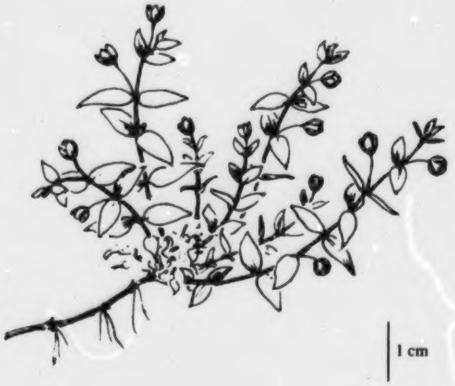
Habitat/Range: Wet to moist meadows and streambanks in the montane zone (ESSFdk, ESSFwc2, ESSFwc4, ESSFwcp2, ESSFwk1, ICHdw, IDFdm2, IDFww, IDFxh1a); rare E of the Coast-Cascade Mountains in S BC; N to S AK, E to AB and S to CO and CA.

Global/Provincial Rank: G5 S2S3 Status: Blue







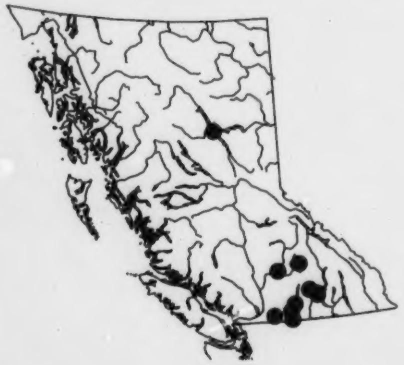


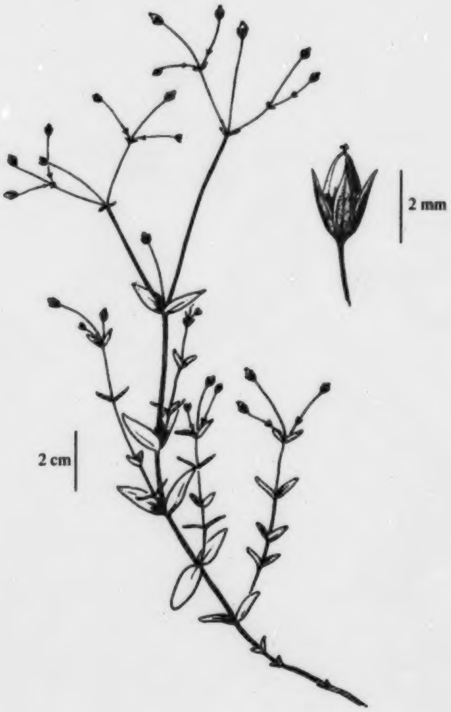
Stellaria umbellata **Turcz. *ex* Kar. & Kir.**

umbellate starwort

Habitat/Range: Moist meadows, streambanks and open forests in the montane to alpine zones (AT, ESSFwc2, ESSFwc4, ESSFwcp2, ESSFwcp4, ESSFxc, SBSmk2); rare in SW, SC and NE BC; circumpolar, N to AK, E to AB and S to MT, CO and CA; Eurasia.

Global/Provincial Rank: G5 S2S3 Status: Blue



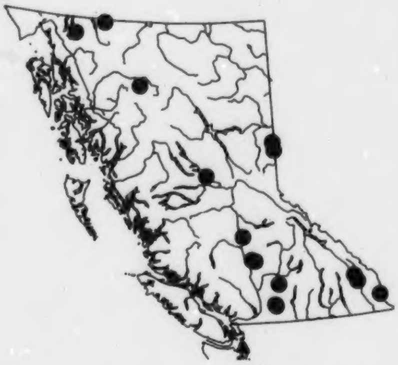


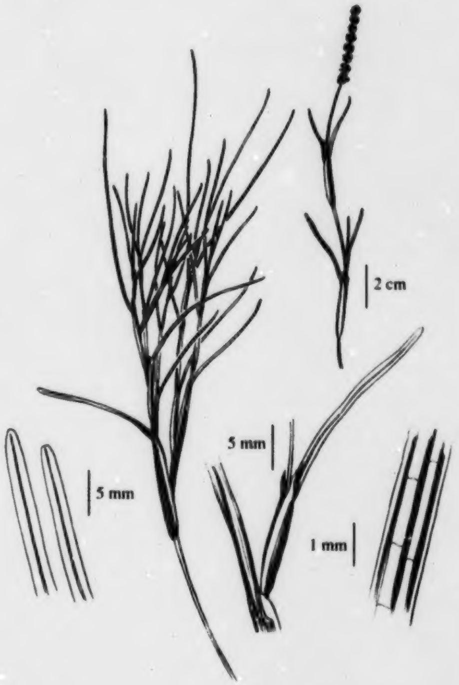
***Stuckenia vaginata* (Turcz.) Holub** (*Potamogeton vaginatus* Turcz.)

sheathing pondweed

Habitat/Range: Lakes in the montane zone (BGxw1, BWBSdk1, BWBSmw1, IDFdk3, IDFdm2, IDFun, IDFxh1, IDFxm, MSdk, SBSdw3, SWBun); rare in BC east of the Coast-Cascade Mountains; circumpolar, N to AK, YT and NT, E to NF and S to ME, OH, MI, WI, MN, SD, CO, ID and OR; Eurasia.

Global/Provincial Rank: G5 S2S3 Status: Blue





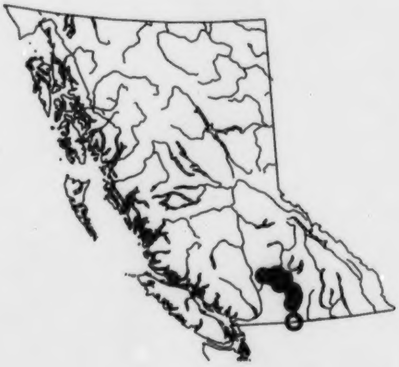
***Talinum sediforme* von Poellnitz** (*Talinum okanoganense* English)

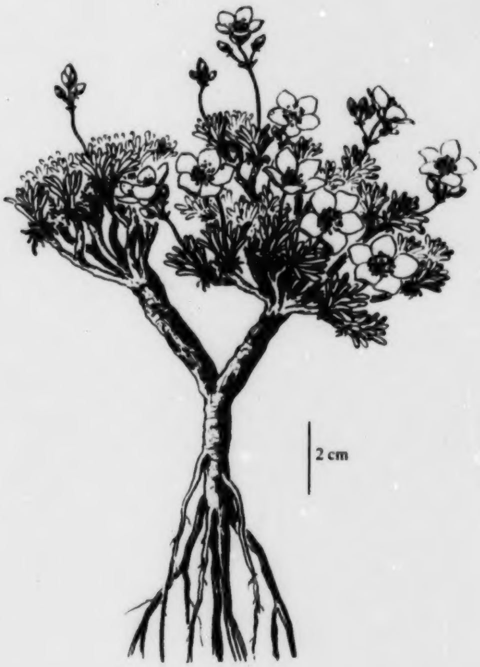
Okanogan fameflower; Okanogan talinum

Habitat/Range: Dry, open slopes of degraded volcanic rock, ridges and grasslands in the steppe and montane zones (BGxh1, BGxh2, BGxw1, ESSFxc, IDFmw1, IDFxh1, IDFxh2, IDFxh2a, MSxk, PPxh1); rare in SC BC; S to N WA.

Global/Provincial Rank: G3 S2S3 Status: Blue

Notes: For colour illustration see Clark (1976).



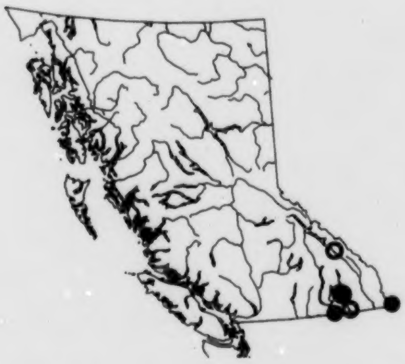


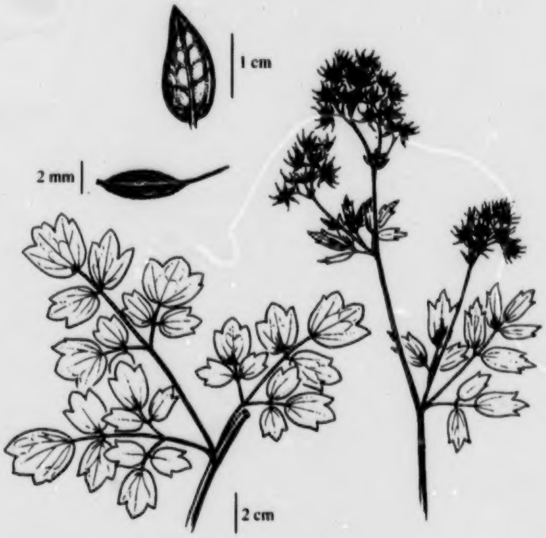
***Thalictrum dasycarpum* Fisch. & Ave-Lall.** (*T. dasycarpum* var. *hypoglaucum* [Rydb.] Boivin)

purple meadowrue

Habitat/Range: Wet meadows, streambanks and woodlands in the montane zone (ESSFdk, ICHdw, ICHxw, IDFdm2); rare in SE BC; E to NB and NS and S to LA, FL, NM, AZ and NE WA.

Global/Provincial Rank: G5 S2S3 Status: Blue



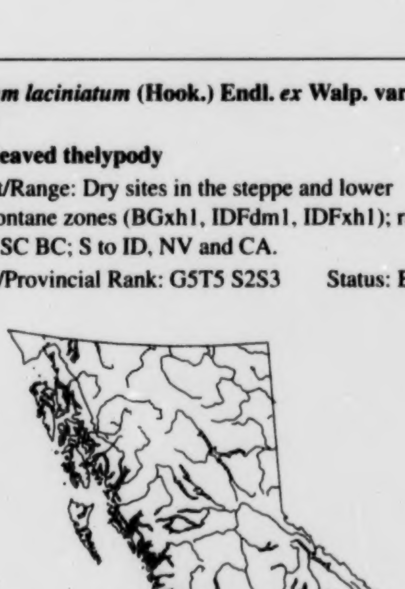


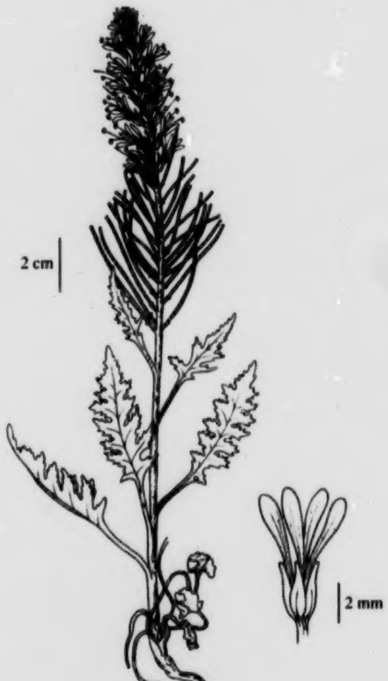
Thelypodium laciniatum* (Hook.) Endl. *ex* Walp. var. *laciniatum

thick-leaved thelypody

Habitat/Range: Dry sites in the steppe and lower montane zones (BGxh1, IDFdm1, IDFxh1); rare in SC BC; S to ID, NV and CA.

Global/Provincial Rank: G5T5 S2S3 Status: Blue





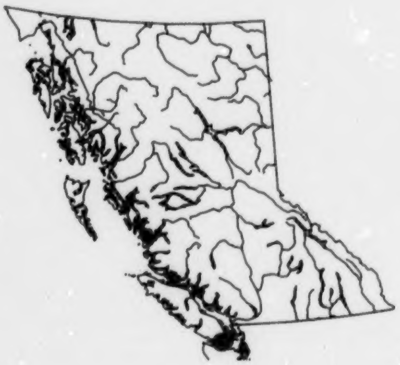
Thelypteris nevadensis **(Baker) Clute**

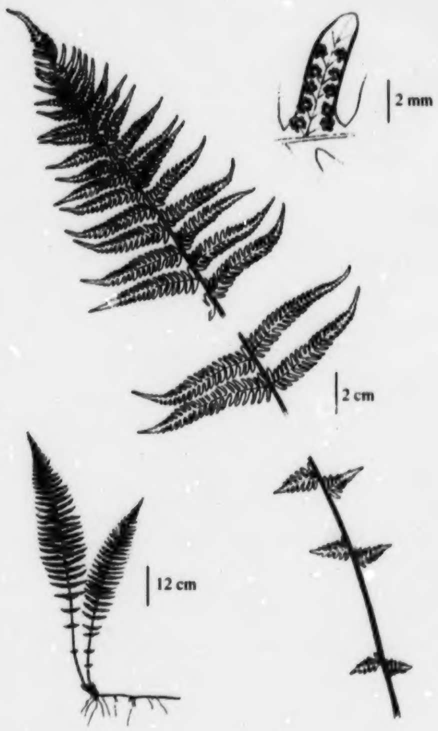
Nevada marsh fern

Habitat/Range: Wet to moist gravel bars in the lowland zone (moist in summer, flooded in winter) (CWHxm1); rare in SW BC, known only from the Sooke River; S to ID and CA.

Global/Provincial Rank: G4 S1 Status: Red

Notes: A collection labelled Della Lake, Strathcona Park appears to be out-of-range and further field work has not relocated the plant.



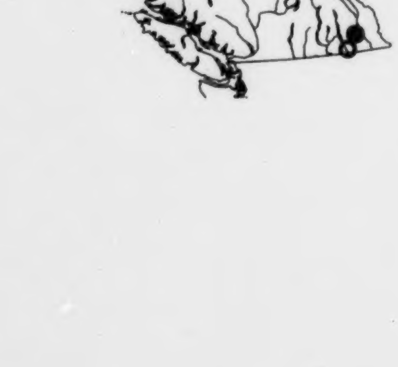


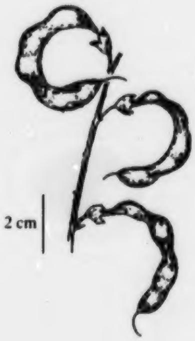
Thermopsis rhombifolia **Nutt. *ex* Richards.**

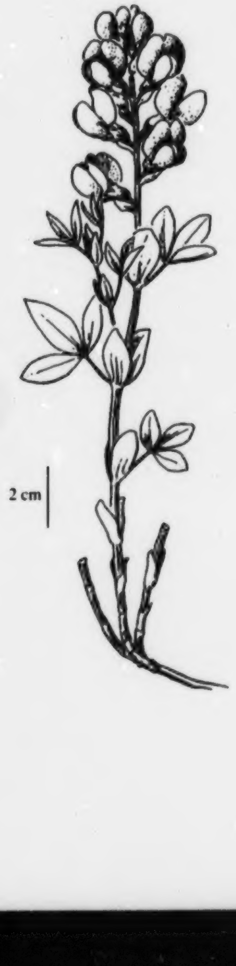
prairie golden bean

Habitat/Range: Mesic to moist meadows and grasslands in the montane zone (ESSFdk, ICHdw, IDFdm2); rare in SE BC, E to MB and S to NE, ND, CO, ID and CA.

Global/Provincial Rank: G5 S1 Status: Red





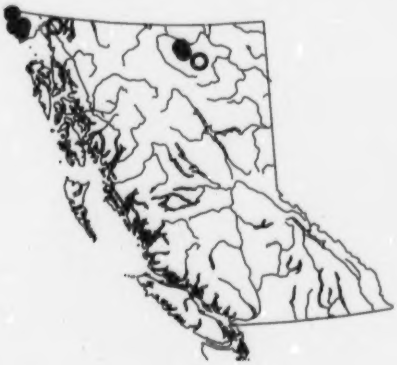


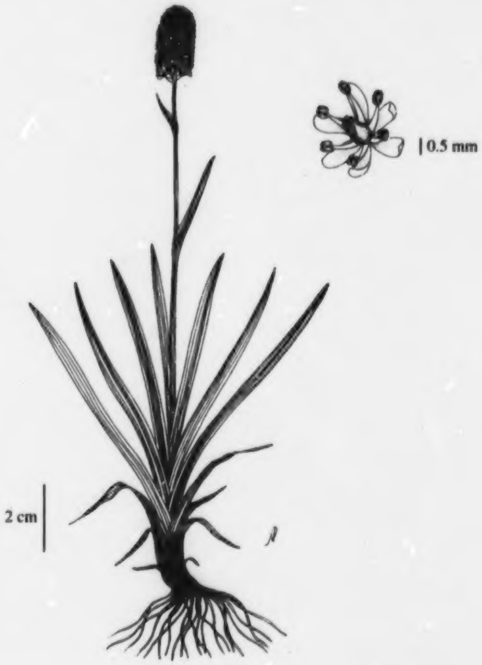
Tofieldia coccinea **Richards.**

northern false asphodel

Habitat/Range: Dry to mesic meadows, rocky slopes and tundra in the montane to alpine zones (AT, BWBSvk, ESSFwv, SWBmk, SWBvk); rare in N BC; circumpolar, N to AK, YT and NT, E to AB and disjunct to ON, PQ and Labr.; Greenland, Eurasia.

Global/Provincial Rank: G5 S2S3 Status: Blue



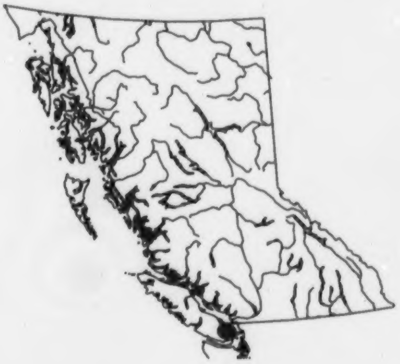


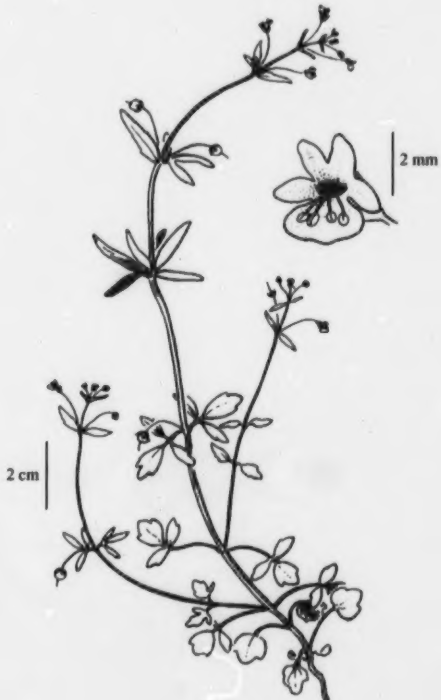
Tonella tenella **(Benth.) Heller**

small-flowered tonella

Habitat/Range: Dry, rocky slopes in the lowland zone (CDFmm); rare in SW BC, known only from Saltspring Island; S to CA.

Global/Provincial Rank: G5 S1 Status: Red



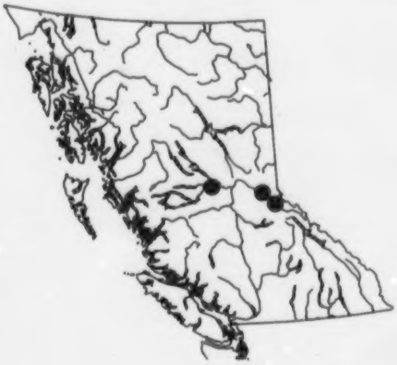


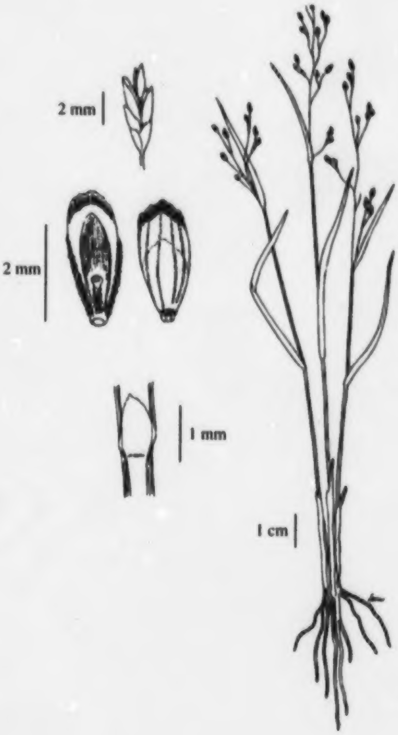
***Torreyochloa pallida* (Torr.) Church** *(Glyceria fernaldii* [A.S. Hitchc.] St. John, *Puccinellia pallida* [A.S. Hitchc.] Church)

Fernald's false manna; Fernald's alkaligrass

Habitat/Range: Shallow water, marshes, bogs and wet meadows in the montane zone (ICHwk3, SBSdk); rare in EC BC; amphiberingian, N to NT, E to NF and S to ME, MA, PA, WV, MI, WI, MN and WY; E. Asia.

Global/Provincial Rank: G5? S1 Status: Red





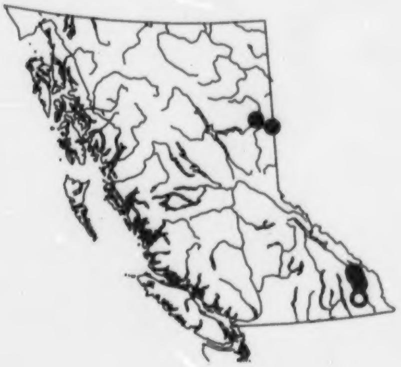
***Townsendia hookeri* Beaman**

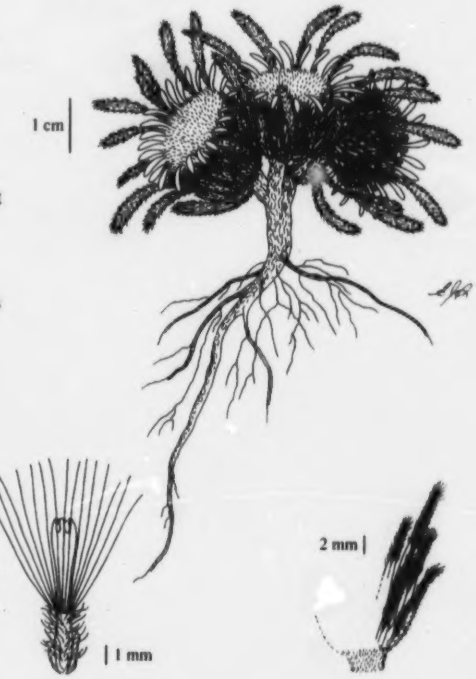
Hooker's townsendia

Habitat/Range: Dry grassy slopes and meadows in the steppe and lower montane zones (IDFdm2, IDFun); rare in SE and NE BC; E to AB and SD and S to CO, UT and CA.

Global/Provincial Rank: G5 S2 Status: Red

Notes: It has now been over 18 years since BC *Townsendia* collections were examined for the BC Asteraceae treatment (Douglas 1995). In recent years, much more material has been collected from SE BC as well as a collection from NE BC. It is now apparent that most of our plants fit *T. hookeri* quite well. Some collections, however, do approach the closely related *T. exscapa*. These plants have either more narrow involucral bracts or lack the terminal tufts of hairs on the bracts and the relatively wide (about 1.5 cm wide) involucres typical of *T. exscapa*.





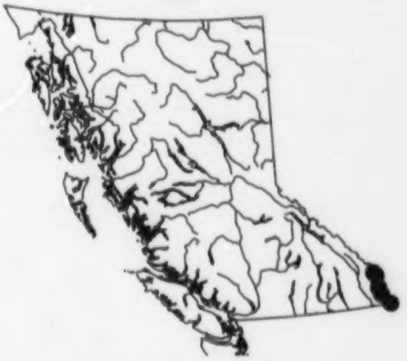
***Townsendia parryi* D.C. Eat.**

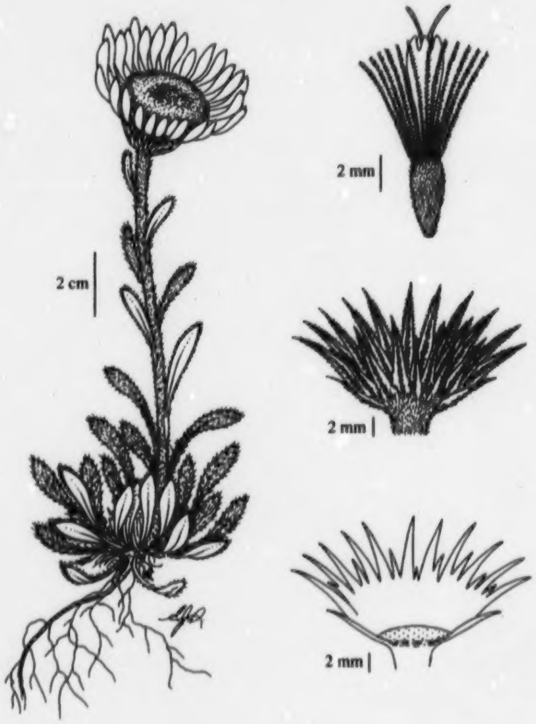
Parry's townsendia

Habitat/Range: Dry rocky slopes and ridges in the alpine zone (AT); rare in SE BC; E to AB and S to CO and OR.

Global/Provincial Rank: G4? S1 Status: Red

Notes: For colour illustration see Shaw and On (1991) and Taylor (1992).



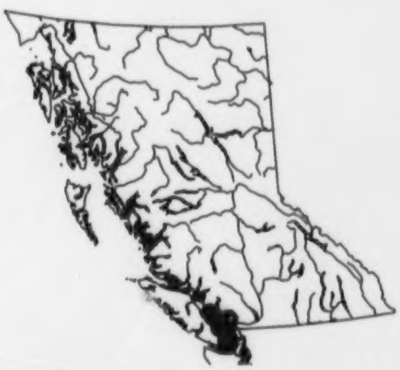


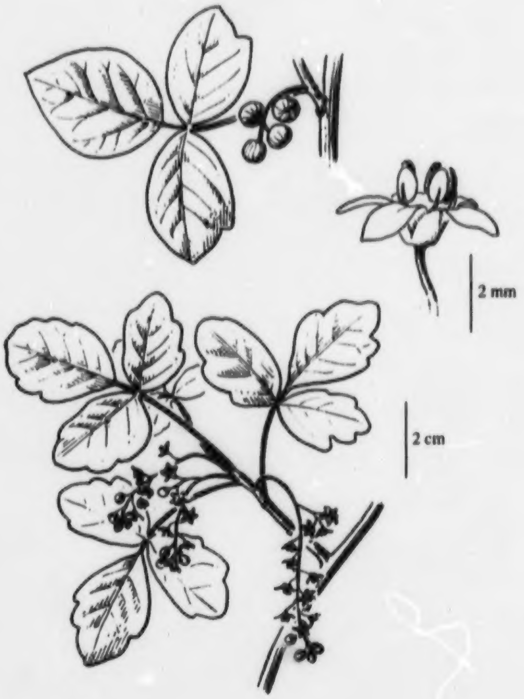
***Toxicodendron diversilobum* (T. & G.) Greene (*Rhus diversiloba* T. & G.)**

poison oak

Habitat/Range: Dry to mesic rocky slopes (often climbing trees) in the lowland zone (CDFmm, CWHdm, CWHxm1); rare in SW BC, known from SE Vancouver Island, the Gulf Islands and Howe Sound; S to MX.

Global/Provincial Rank: G5 S2S3 Status: Blue



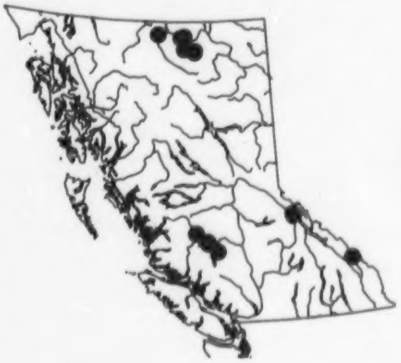


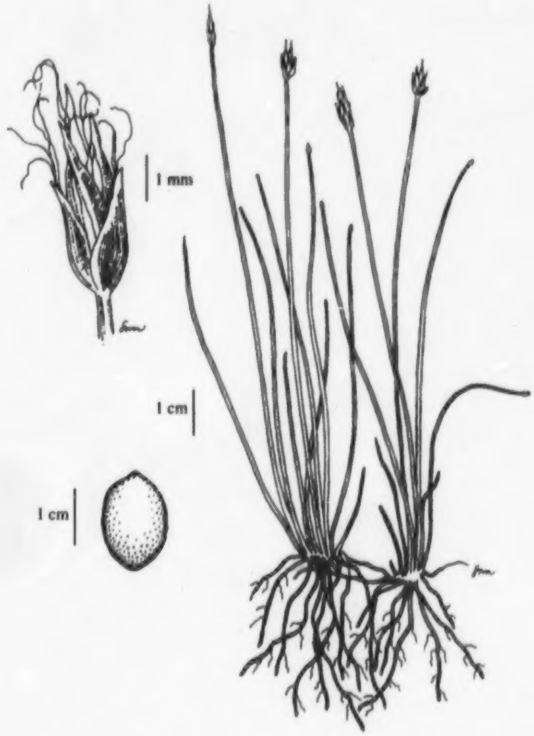
***Trichophorum pumilum* (Vahl) Schinz & Thell.** (*Scirpus pumilus* Vahl, *S. rollandii* Fern.)

dwarf clubrush

Habitat/Range: Bogs, lakeshores and wet meadows in the montane and subalpine zones (BWBSdk2, BWBSmw2, IDFdk4, SBPSxc, SBSdh1, SWBmk); rare in BC E of the Coast-Cascade Mountains and N of 51°N; circumpolar, N to YT and NT, E to PQ and S to CO, ID and CA; Eurasia.

Global/Provincial Rank: G5 S2S3 Status: Blue



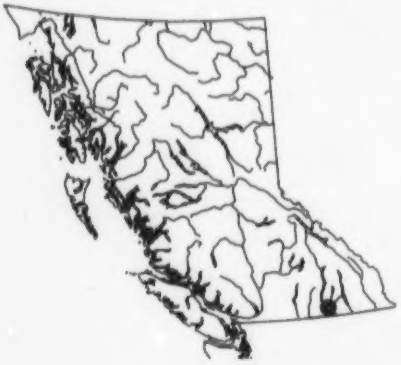


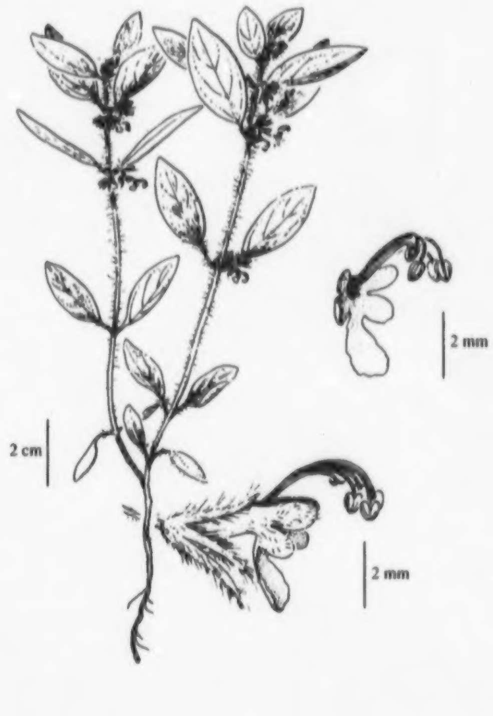
***Trichostema oblongum* Benth.**

mountain blue-curls

Habitat/Range: Moist to wet seepage slopes and disturbed areas in the lower montane zone (ICHmw2); rare in SE BC, known only from the Castlegar area; S to NV and CA.

Global/Provincial Rank: G5 S1 Status: Red



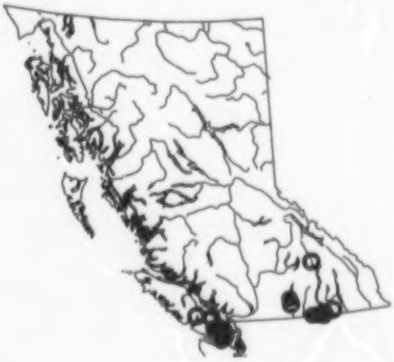


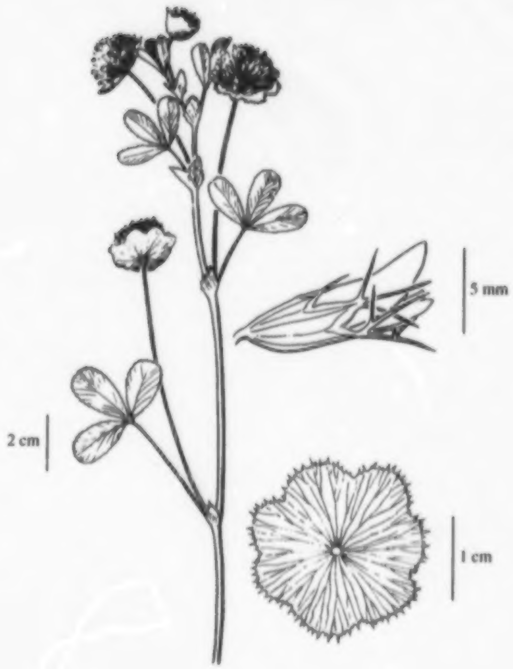
Trifolium cyathiferum **Lindl.**

cup clover

Habitat/Range: Vernally wet seepage areas and mesic to moist open, often sandy sites in the lowland, steppe and lower montane zones (BGxh1, CDFmm, CWHmm2, CWHxm1, CWHxm2, ICHdw, ICHmw3, IDFdm1, IDFxh1, PPdh1); rare in S BC; S to ID and CA.

Global/Provincial Rank: G4 S1 Status: Red



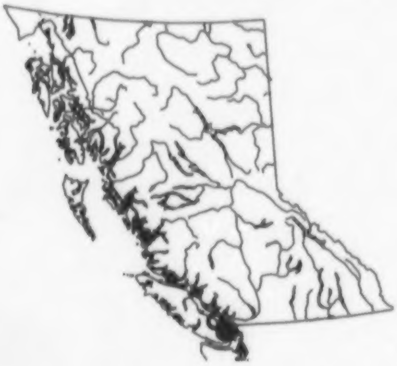


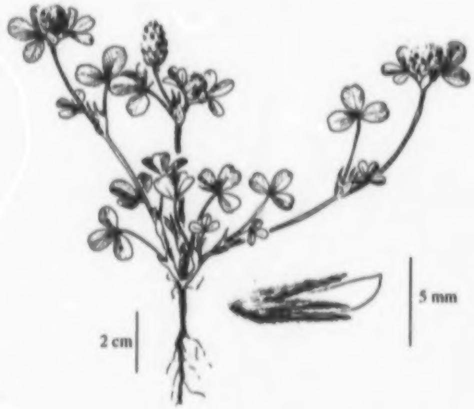
Trifolium dichotomum **H. & A.** (*T. macraei* H. & A. var. *dichotomum* [H. & A.] Brew. & S. Wats.)

Macrae's clover

Habitat/Range: Mesic to dry open, grassy sites in the lowland zone (CDFmm, CWHxm2); rare on SE Vancouver Island and adjacent Gulf Islands; S to C CA.

Global/Provincial Rank: G3G4 S2S3 Status: Blue



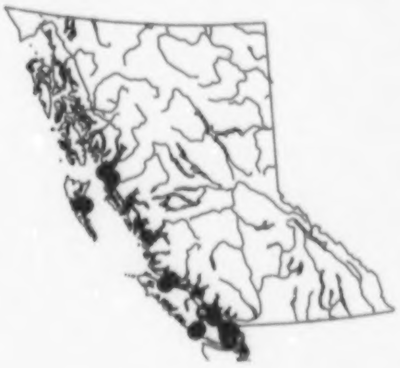


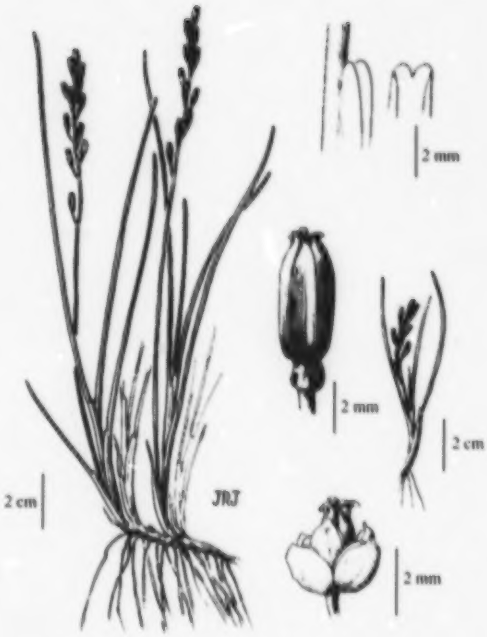
Triglochin concinna **Burtt-Davy**

graceful arrow-grass

Habitat/Range: Tidal marshes (CDFmm, CWHvh1, CWHvh2, CWHwh1); rare in coastal BC; S to NW MX; S America.

Global/Provincial Rank: G5 S2 Status: Red





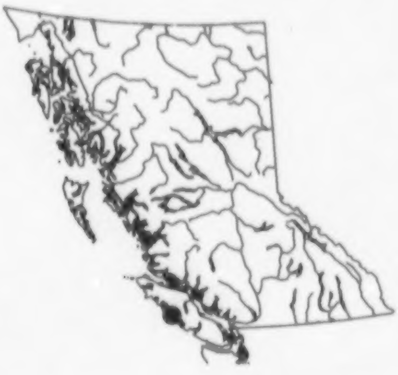
Trillium ovatum **Pursh var.** ***hibbersonii*** **(T.M.C. Taylor & Szczawinski) Douglas & Pojar** (*T. ovatum* forma *hibbersonii* T.M.C. Taylor & Szczawinski)

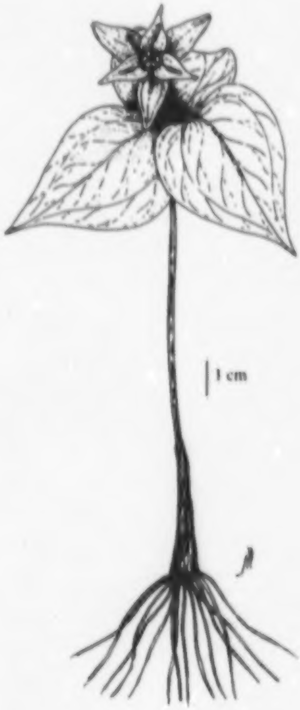
dwarf trillium

Habitat/Range: Moist to mesic steep, mossy cliffs and rock outcrops in the lowland zone (CWHvm1); rare in BC, only known from W Vancouver Island; endemic to BC.

Global/Provincial Rank: G5T1 S1 Status: Red

Notes: This taxon was recently recognized at the varietal level by Douglas *et al.* (2001a) and Douglas and Pojar (2001).





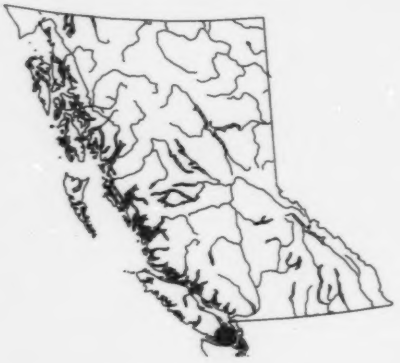
Triphysaria versicolor* Fisch. & C. Meyer ssp. *versicolor
(*Orthocarpus faucibarbatus* A. Gray ssp. *albidus* Keck)

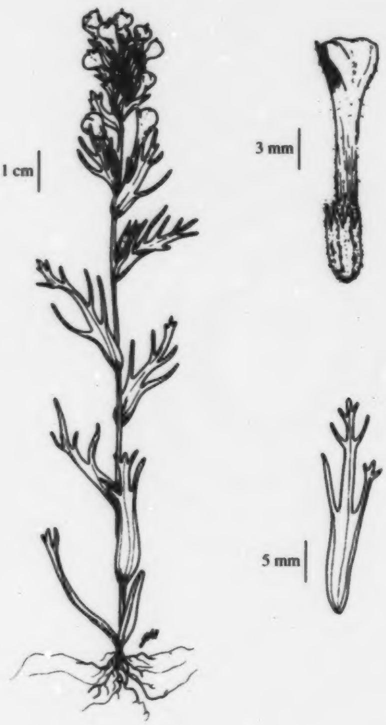
bearded owl-clover

Habitat/Range: Vernally moist to dry grassy meadows on headlands near the sea in the lowland zone (CDFmm); rare on SE Vancouver Island; disjunct, S OR to N CA.

Global/Provincial Rank: G5T5 S1 Status: Red

Notes: This disjunct species occurs 425 km N of the nearest population in Lane Co., OR. Many authors (e.g., Keck 1927, Taylor and MacBryde 1977, Scoggan 1979) have treated this as an introduced species, although there is no evidence of it being introduced at the collection sites (Penny and Douglas, 1998). For colour illustation, see Clark (1976).



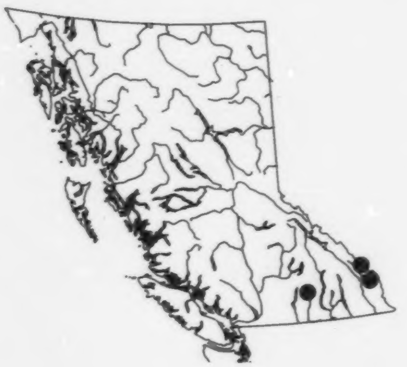


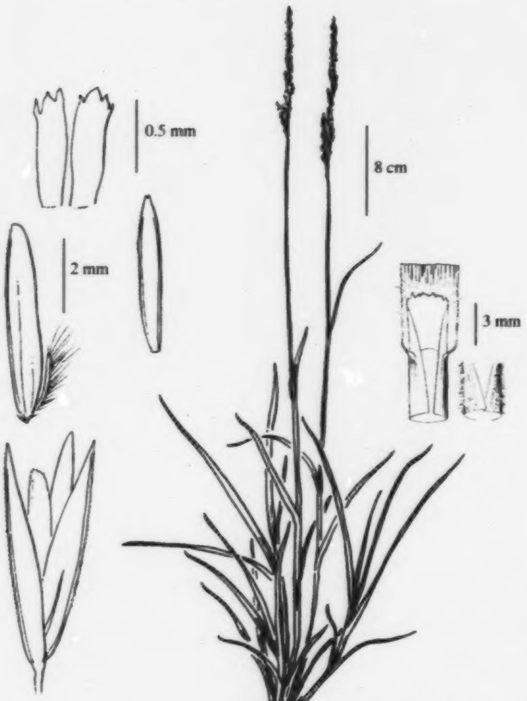
***Trisetum wolfii* Vasey**

Wolf's trisetum

Habitat/Range: Wet meadows and moist streamsides in the subalpine zone (ESSFdk, ESSFxc, MSdk); rare in SE BC; E to SK and S to NM, UT, NV and CA.

Global/Provincial Rank: G4 S2S3 Status: Blue



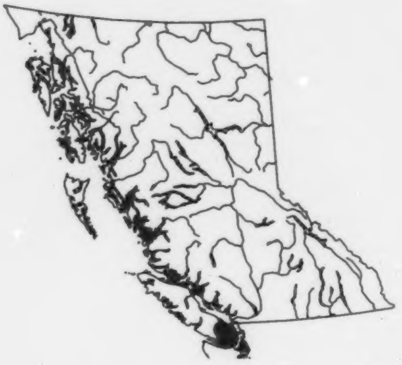


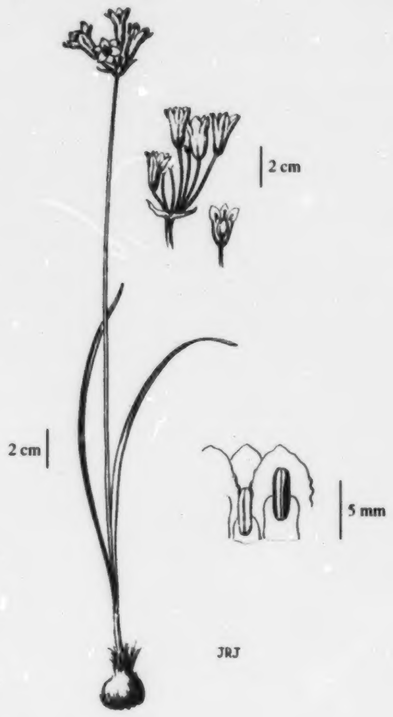
***Triteleia howellii* (S. Wats.) Greene** (*Brodiaea howellii* S. Wats., *Triteleia grandiflora* Lindl. var. *howellii* [S. Wats.] Hoover)

Howell's triteleia

Habitat/Range: Dry to mesic grassy coastal bluffs and meadows in the lowland zone (CDFmm); rare on SE Vancouver Island and the Gulf Islands; S to CA.

Global/Provincial Rank: G5 S2 Status: Red



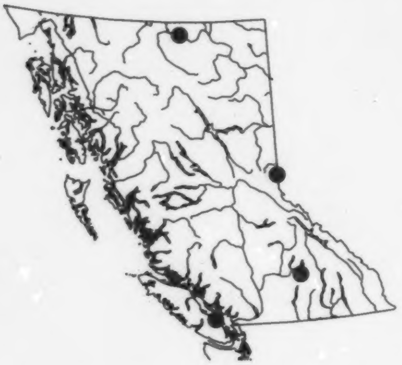


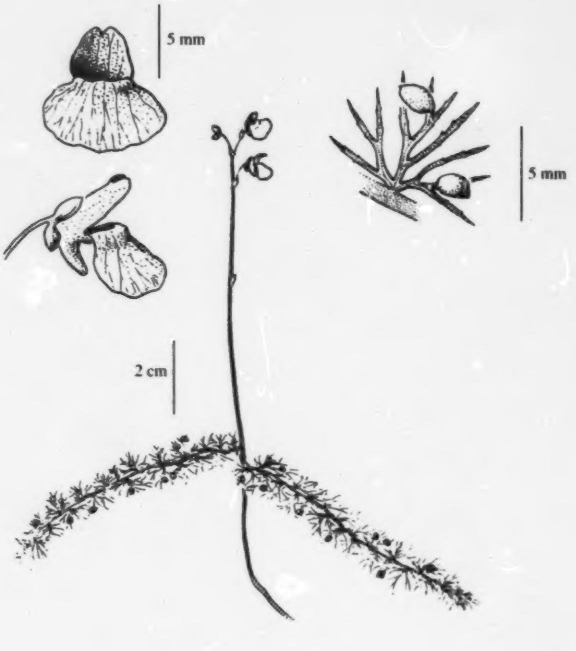
***Utricularia ochroleuca* R.W. Hartman** (*U. occidentalis* A. Gray)

ochroleucous bladderwort

Habitat/Range: Oligotrophic and dystrophic (low nutrient) lakes in the montane zone (BWBSdk, CDFmm, ESSFmv2, ICHmw2); rare in SW BC and E BC; S to WA and OR, disjunct to ON.

Global/Provincial Rank: G4? S1 Status: Red



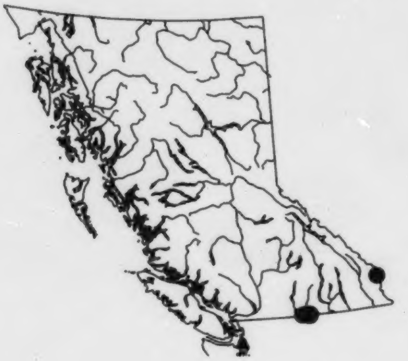


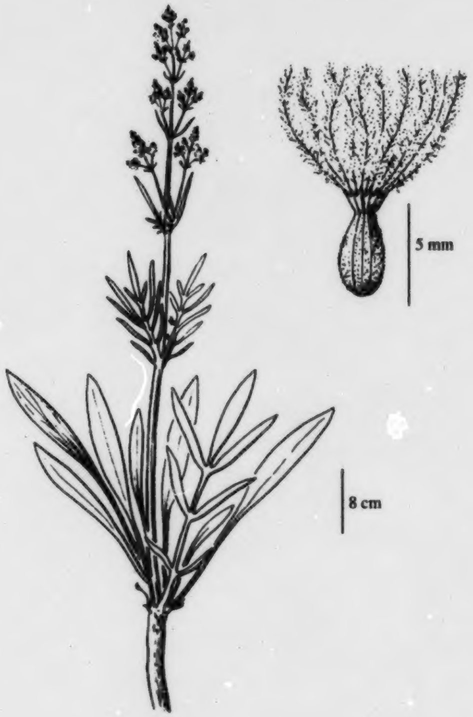
Valeriana edulis **Nutt. *ex* T. & G. ssp. *edulis***

edible valerian

Habitat/Range: Moist (sometimes saline) meadows in the montane zone (IDFdm1, IDFxh1, PPdh1); rare in SC and SE BC; E to ON and S to SD, NM, AZ, NV and OR.

Global/Provincial Rank: G5T5 S2S3 Status: Blue



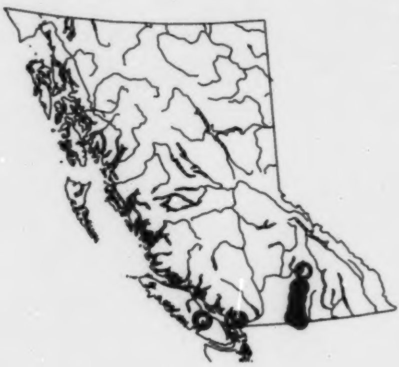


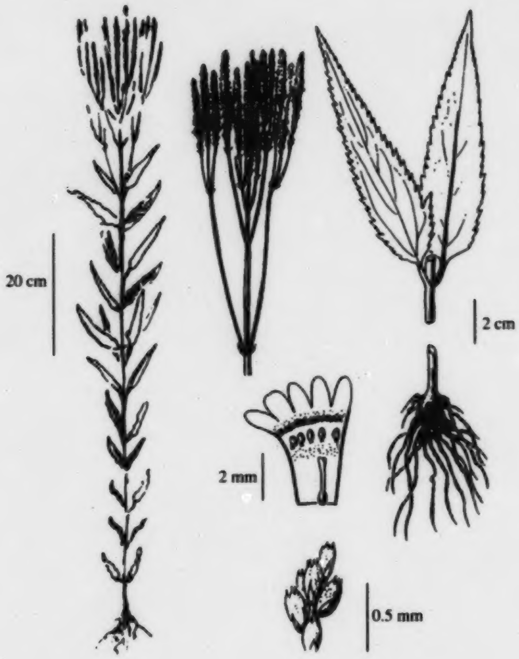
Verbena hastata **L. var. *scabra* Moldenke**

blue vervain

Habitat/Range: Moist to wet ditches, meadows and marshes in the lowland and steppe zones (BGxh1, CWHdm, CWHxm1, CWHxm2, IDFxh1a); rare in SW and SC BC; E to PQ and S to IN, MN, IA, TX, NM, AZ and CA.

Global/Provincial Rank: G5T? S2 Status: Red



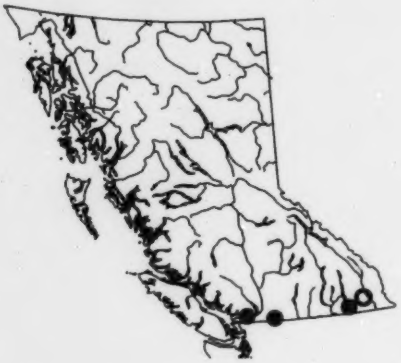


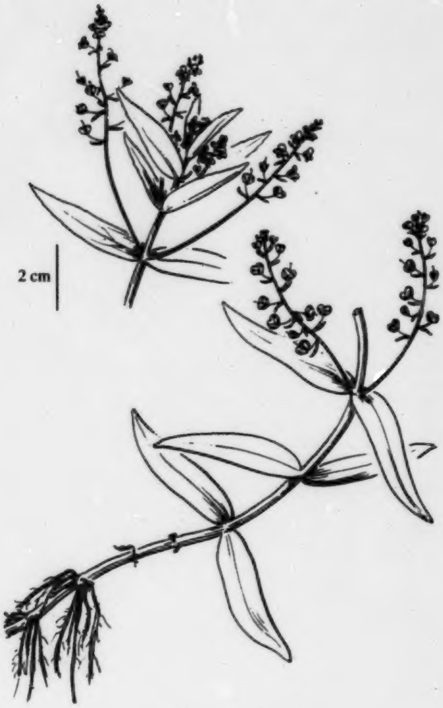
Veronica catenata **Pennell**

pink water speedwell

Habitat/Range: Wet meadows, ditches, shores, and shallow water along pond edges and slow-moving streams in the lowland and montane zones (CWHdm, ESSFmw, IDFdm2); rare in S BC; E to PQ and S to PA, OH, MO, OK, NM and CA; Europe.

Global/Provincial Rank: G5 S1 Status: Red



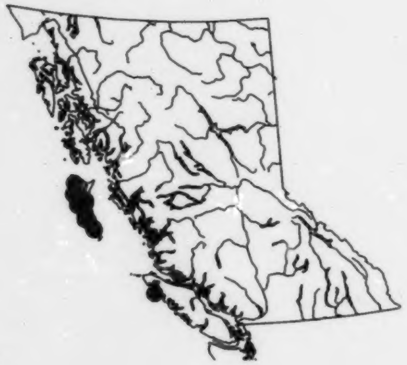


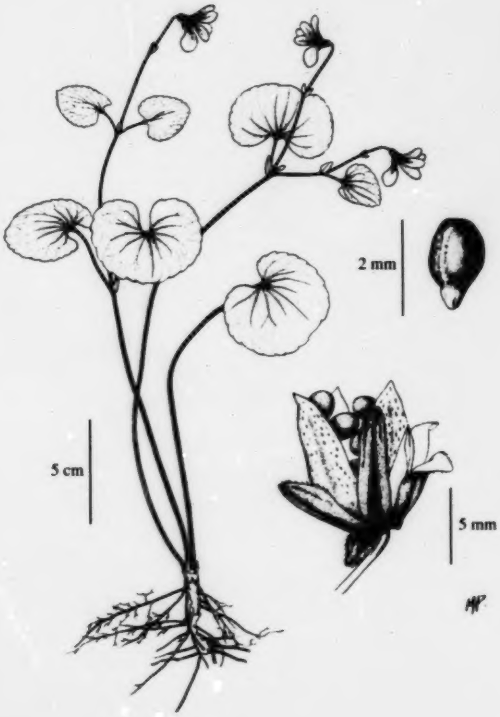
Viola biflora **L. ssp.** ***carlottae*** **Calder & Taylor**

Queen Charlotte twinflower violet

Habitat/Range: Moist rock outcrops and meadows in the montane to alpine zones (AT, CWHvh1, CWHvh2, CWHwh1, MHwh); rare on the Queen Charlotte Islands and NW Vancouver Island; endemic to BC and SE AK.

Global/Provincial Rank: G5T3 S3 Status: Blue



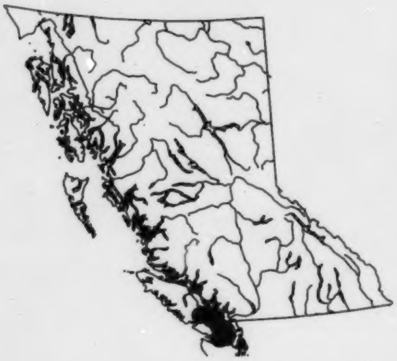


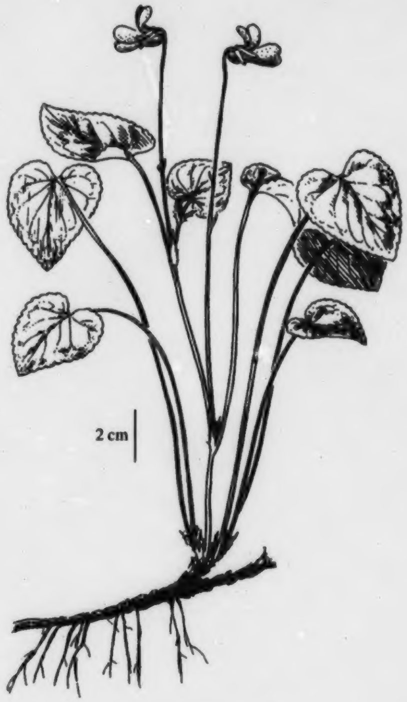
Viola howellii **A. Gray**

Howell's violet

Habitat/Range: Mesic to moist woodlands and forests in the lowland zone (CDFmm, CWHmm2, CWHxm1, CWHxm2, MHmm1); rare on S Vancouver Island; S to OR.

Global/Provincial Rank: G4 S2S3 Status: Blue





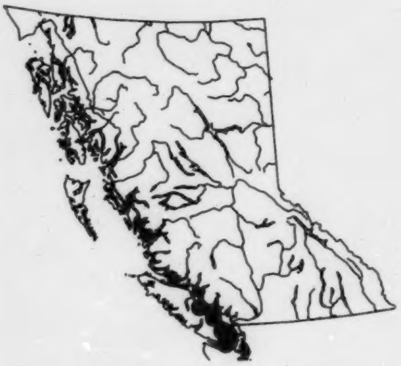
Viola praemorsa **Dougl. *ex* Lindl. ssp. *praemorsa*** (*V. nuttallii* Pursh var. *praemorsa* [Dougl. *ex* Lindl.] S. Wats.)

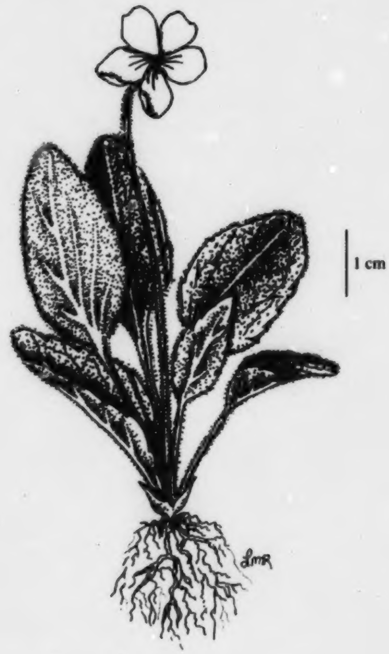
yellow montane violet

Habitat/Range: Dry grassy slopes and oak woodlands in the lowland zone (CDFmm, CWHxm1, CWHxm2); rare on SE Vancouver Island and adjacent islands; S to CA.

Global/Provincial Rank: G5T3T5 S2 Status: Red

Notes: For colour illustration see Clark (1976) and Pojar and MacKinnon (1994).



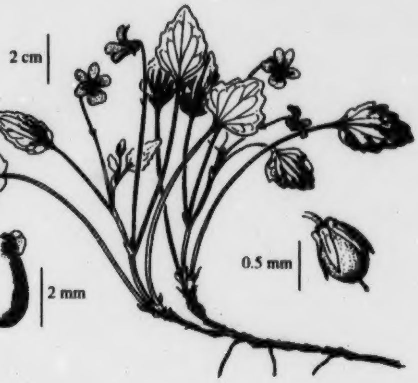


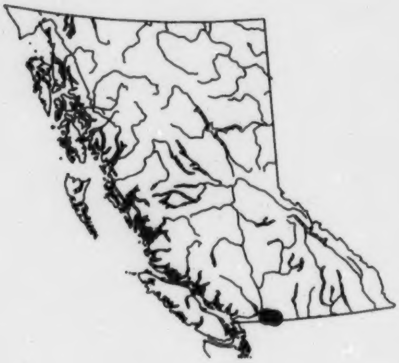
***Viola purpurea* Kell. var. *venosa* (S. Wats.) Brainerd**

purple-marked yellow violet

Habitat/Range: Dry scree and gravelly or rocky slopes in the alpine zone (AT); rare in SW BC, known only from Manning Park and Silvertip Mtn.; S to CO, UT, NV and CA.

Global/Provincial Rank: G5T? S2S3 Status: Blue



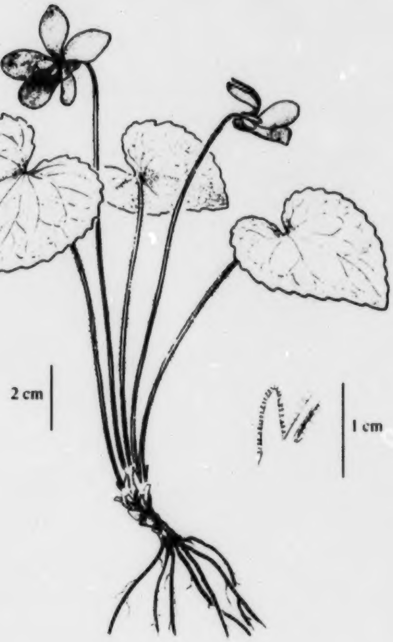


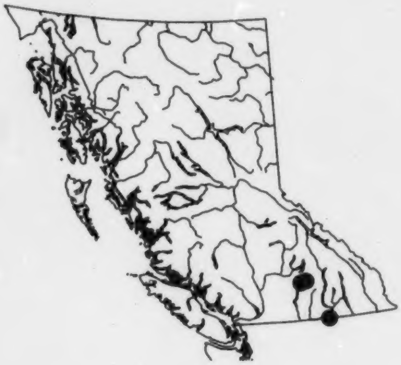
***Viola septentrionalis* Greene**

northern violet; northern blue violet

Habitat/Range: Mesic to moist open forests in the montane zone (ICHdw, ICHmw2, IDFxh1); rare in S BC; disjunct in SK, ON, E to NF and S to ME, NH, PA, NC, TN, IA, NE, MT and WA.

Global/Provincial Rank: G5 S2S3 Status: Blue



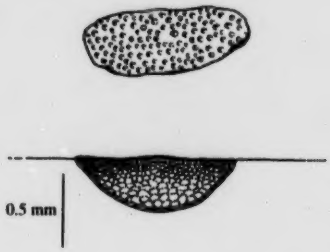


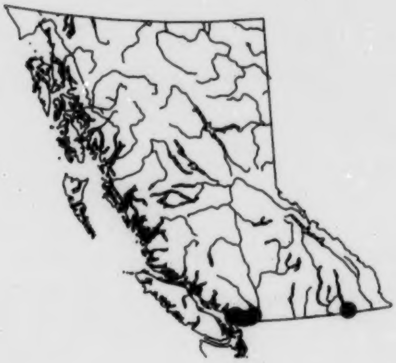
Wolffia borealis **(Engelm. ex Hegelm.) Landolt ex Landolt & Wildi** (*W. punctata auct. non* Griseb.)

northern water-meal

Habitat/Range: Ponds, lakes and slow-moving streams in the lowland and montane zones (CWHdm, CWHxm1, ICHxw); rare in the lower Fraser Valley and SE BC (Creston); disjunct in ON and PQ and S to CT, NC, TN, MO, KS, CO, UT and CA.

Global/Provincial Rank: G5 S2 Status: Red



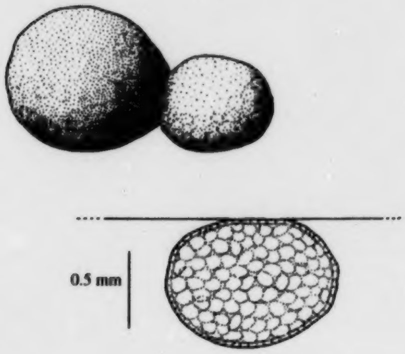


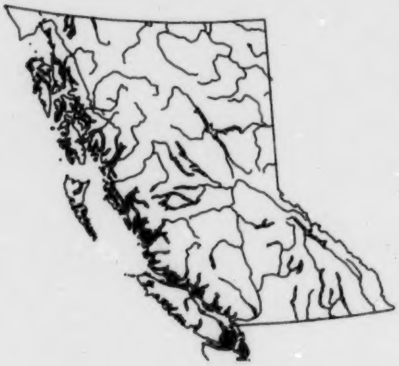
Wolffia columbiana **Karst.**

Columbian water-meal

Habitat/Range: Ponds and lakes in the lowland zone (CDFmm); rare in SW BC, known only from the Saanich Peninsula; E to PQ and S to MA, PA, FL, MS, TX, CO and CA; S. America.

Global/Provincial Rank: G5 S1 Status: Red



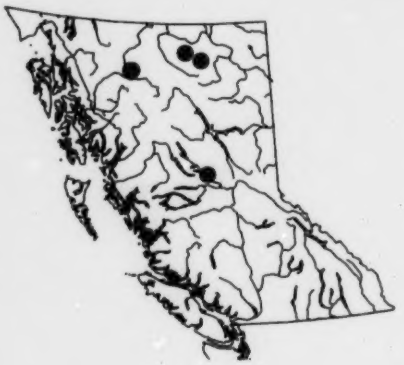


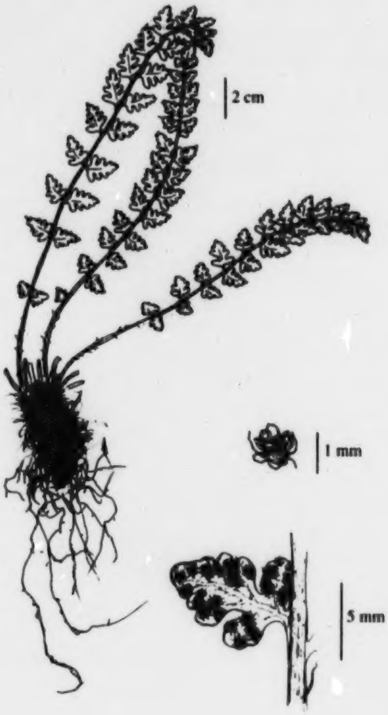
***Woodsia alpina* (Bolton) S. F. Gray**

alpine cliff fern

Habitat/Range: Moist calcareous rocks in the montane and subalpine zones (SBSdw2, SWBmk); rare in C and N BC; circumpolar, N to AK, YT and NT, E to NF and S to ME, NY, MI and MN; Eurasia.

Global/Provincial Rank: G4 S2S3 Status: Blue



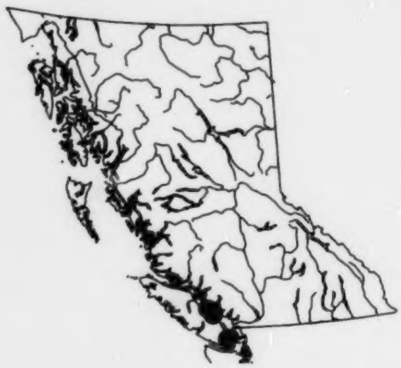


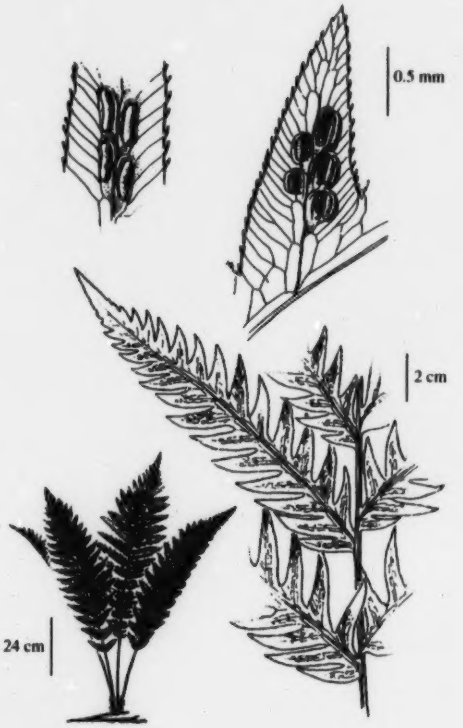
***Woodwardia fimbriata* J.E. Smith *ex* Rees**

giant chain fern

Habitat/Range: Moist forests and seepy coastal cliffs in the lowland zone (CDFmm, CWHxm1); rare on SE Vancouver Island, Lasqueti Island and Texada Island; S to CA, disjunct to AZ and NV.

Global/Provincial Rank: G5 S3 Status: Blue



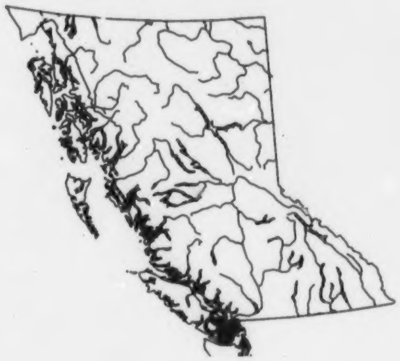


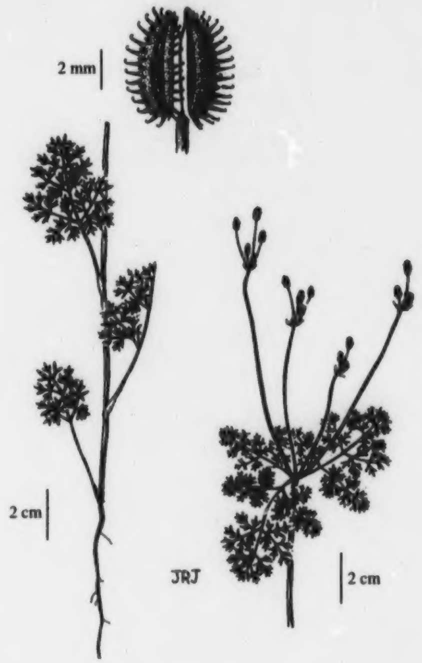
***Yabea microcarpa* (Hook. & Arn.) K.-Pol.** (*Caucalis microcarpa* Hook. & Arn.)

California hedge-parsley; false carrot

Habitat/Range: Moist vernal sites and streambanks in the lowland zone (CDFmm, CWHxm1, CWHxm2); rare on SE Vancouver Island and the Gulf Islands; S to ID and MX.

Global/Provincial Rank: G5? S1 Status: Red





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Appendix 1

Name Changes to Species in the First Edition of the Rare Vascular Plant Manual

Ammania coccinea = *A. robusta*

Androsace chamaejasme =*A. chamaejasme* ssp. *lehmanniana*

Anemone riparia = *A. virginiana* var. *cylindroidea*

Apocynum medium = *A. x floribundum*

Cacaliopsis nardosmia ssp. *glabrata* = *C. nardosmia*

Callitriche anceps = *C. heterophylla* ssp. *heterophylla*

Caltha palustris ssp. *asarifolia* = *C. palustris* var. *palustris*

Cardamine parviflora= *C. parviflora* var. *arenicola*

Carex hystericina= *C. hystricina*

Carex maritima = *C. incurviformis* var. *incurviformis*

Carex rugosperma var. *tonsa* = *C. tonsa* var. *tonsa*

Caucalis microcarpa = *Yabea microcarpa*

Centunculus minimus = *Anagallis minima*

Chenopodium leptophyllum var. *oblongifolia* = *C. dessicatum*

Coreopsis atkinsoniana = *C. tinctoria* var. *atkinsoniana*

Crassula erecta = *C. connata* var. *connata*

Cyperus aristatus=*C. squarrosus*

Diapensia lapponica = *D. lapponica* ssp. *obovata*

Disporum smithii = *Prosartes smithii*

Douglasia laevigata = *D. laevigata* var. *ciliolata*

Elymus x yukonensis = *E. calderi*

Erigeron uniflorus var. *eriocephalus* = *E. uniflorus* ssp. *eriocephalus*

Eriophorum vaginatum ssp. *spissum* = *E. vaginatum* ssp. *vaginatum*

Euphorbia serpyllifolia = *Chamaesyce serpyllifolia* ssp. *serpyllifolia*

Euphrasia arctica var. *disjuncta* = *E. subarctica*

Gentianella crinita ssp. *macounii* = *Gentianopsis macounii*

Hammarbya paludosa = *Malaxis paludosa*

Isopyrum savilei = *Enemion savilei*

Lappula redowskii var. *cupulata* = *L. occidentalis* var. *cupulata*

Lotus purshianus = *L. unifoliolatus* var. *unifoliolatus*

Lupinus argenteus var. *tenellus* = *L. argenteus* var. *laxiflorus*

Lupinus densiflorus var. *scopulorum* = *L. densiflorus* var. *densiflorus*

Lupinus sulphureus ssp. *subsaccatus* = *L. bingenensis* var. *subsaccatus*

Lupinus sulphureus ssp. *kincaidii* = *L. oreganus* var. *kincaidii*

Luzula arctica= *L. nivalis*

Malaxis monophyllos var. *brachypoda* = *M. brachypoda*
Malaxis monophyllos var. *diphyllos* = *M. diphyllos*
Orthocarpus hispidus = *Castilleja tenuis*
Oxytropis columbiana = *O. campestris* var. *columbiana*
Papaver alpinum = *P. pygmaeum*
Pellaea atropurpurea = *P. gastonyi*
Penstemon nitidus = *P. nitidus* var. *nitidus*
Phlox speciosa= *P. speciosa* ssp. *occidentalis*
Polemonium caeruleum ssp. *amygdalinum* = *P. occidentale* ssp. *occidentale*
Polygonum bistorta = *P. bistorta* ssp. *plumosum*
Polygonum engelmannii = *P. douglasii* ssp. *engelmannii*
Polypodium virginianum = *P. sibiricum*
Potamogeton vaginatus = *Stuckenia vaginata*
Potentilla quinquefolia = *P. nivea* var. *pentaphylla*
Primula sibirica = *P. nutans*
Psoralea physodes = *Rupertia physodes*
Ranunculus pedatifidus = *R. pedatifidus* ssp. *affinis*
Rhus diversiloba = *Toxicodendron diversilobum*
Sarracenia purpurea ssp. *purpurea* = *S. purpurea* ssp. *gibbosa*
Saxifraga davurica ssp. *grandipetala* = *S. razshivinii*
Scirpus fluviatilis = *Bolboschoenus fluviatilis*
Scirpus olneyi = *Schoenoplectus americanus*
Scirpus rollandii = *Trichophorum pumilum*
Scirpus supinus var. *saximontanus* = *Schoenoplectus saximontanus*
Senecio foetidus var. *foetidus* = *S. hydrophiloides*
Senecio foeridus var. *hydrophiloides* = *S. hydrophiloides*
Senecio tundricola = *S. fuscata*
Senecio newcombei = *Sinosenecio newcombei*
Spergularia macrotheca = *S. macrotheca* var. *macrotheca*
Sphenopholis obtusa var. *major* = *S. intermedia*
Sporobolus asper = *S. compositus* var. *compositus*
Stipa spartea = *Hesperostipa spartea*
Thellungiella salsuginea= *Arabidopsis salsuginea*
Triglochin concinnum var. *concinnum* = *T. concinna*
Trifolium macraei var. *dichotomum* = *T. dichotomum*
Verbena hastata = *V. hastata* var. *scabra*

New Taxa Not Included In Text of First Edition of Rare Native Vascular Plants of BC

Antennaria flagellaris
Aster puniceus var. *puniceus*
Atriplex truncata
Astragalus vexilliflexus var. *vexilliflexus*
Berula erecta
Botrychium boreale
Botrychium spathulatum
Carex adusta
Carex backii
Carex lenticularis var. *dolia*
Carex lenticularis var. *lenticularis*
Carex rostrata
Carex tumulicola
Carex vallicola var. *vallicola*
Castilleja cusickii
Cirsium drummondii
Clarkia purpurea ssp. *quadrivulnera*
Claytonia rubra ssp. *depressa*
Claytonia washingtoniana
Collomia tenella
Delphinium glareosum
Delphinium sutherlandii
Eleocharis tenuis
Elymus sibiricus
Elymus virginicus ssp. *submuticus*
Erigeron compositus var. *discoideus*
Erigeron ochroleucus var. *scribneri*
Galium multiflorum
Gayophytum racemosum
Gilia tenerrima
Grindelia hirsutula var. *hirsutula*
Hypericum majus
Juncus confusus
Lomatium dissectum var. *dissectum*
Lomatium triternatum ssp. *platycarpum*
Luzula confusa
Luzula kjellmaniana
Madia minima
Minuartia macrocarpa
Minuartia nutallii ssp. *nuttallii*
Minuartia stricta
Minuartia yukonensis
Muhlenbergia filiformis
Myriophyllum pinnatum
Navarretia divaricata var. *divaricata*
Nymphaea leibergii
Orobanche ludoviciana ssp. *ludoviciana*
Orthocarpus barbatus
Piperia candida
Polygonum bistorta ssp. *plumosum*
Polygonum douglasii ssp. *johnstonii*
Potamogeton nodosus
Psilocarphus brevissimus var. *brevissimus*
Selaginella rupestris
Solidago gigantea ssp. *serotina*
Solidago nemoralis ssp. *longipetiolata*
Stuckenia vaginata
Trichostema oblongum
Trillium ovatum var. *hibbersonii*
Utricularia ochroleuca

Species Delisted Due to Lack of Vouchers, Revised or Questionable Taxonomy or Questionable Native Status

Agastache foeniculum
Apocynum sibiricum var. *salignum (= A. cannabinum)*
Carex swanii
Castilleja fulva
Castilleja gracillima (= C. miniata var. *miniata)*
Catabrosa aquatica
Cryptantha intermedia var. *grandiflora*
Douglasia montana
Elymus x saundersii
Epilobium glareosum (= E. clavatum)
Gilia capitata var. *capitata*
Hydrocotyle ranunculoides
Hydrocotyle verticillata
Lotus nevadensis var. *douglasii*
Lythrum hyssopifolia
Mirabilis hirsuta
Oryzopsis canadensis
Polygonum prolificum (= P. ramosissimum var. *prolificum)*
Ranunculus macounii var. *oreganus (= R. macounii)*
Samolus valerandi

Species Delisted Due to Reidentification

Allium geyeri var. *geyeri*
Astragalus convallarius
Botrychium matricariifolium
Castilleja pallescens
Cryptantha fendleri
Cryptantha nubigena
Delphinium depauperatum
Ellisia nyctelea
Phlox hoodii
Polystichum californicum
Pyrola dentata (= P. picta)
Ranunculus eschscholtzii var. *suksdorfii*
Senecio serra
Sparganium glomeratum
Thermopsis montana
Townsendia exscapa
Trifolium bifidum

Species Delisted Due to Greater Abundance

Calamagrostis sesquiflora
Cardamine umbellata
Chenopodium leptophyllum var. *oblongifolia (= C. dessicatum)*
Epilobium foliosum
Erigeron lanatus
Euphrasia subarctica (= E. arctica var. *disjuncta or E. disjuncta)*
Hydrophyllum fendleri var. *albifrons*
Impatiens capensis
Montia howellii
Myosurus minimus
Nemophila breviflora
Nemophila pedunculata
Pedicularis oederi
Penstemon richardsonii var. *richardsonii*
Piperia maritima (= P. elegans)
Ranunculus flabellaris
Sanguisorba occidentalis
Sinosenecio newcombei (= Senecio newcombei)
Thelypteris quelpaertensis
Trifolium depauperatum
Utricularia gibba
Woodsia glabella
Woodsia ilvensis

Appendix 2
Inventory and collection guidelines for plants in British Columbia

INTRODUCTION

An essential part of any vegetation study is the collection and identification of plants. Even though the objectives of some studies may not be dependent on the identification of all species present, the collection of voucher specimens will indirectly benefit many other ecological or botanical studies.

The voucher specimen requirement will make such studies much more cost effective. For example, in the past, during investigations of wildlife habitat, the identification of various species of sedges (*Carex*) and willows (*Salix*) were taken only to the generic level. This lack of data at the species or subspecific level often requires a future researcher, interested in similar research or the same geographic area, to repeat a major part of the study. Excessive costs to return to an area may even prohibit further study.

Although the additional time to collect plants in a study area may seem to be an inconvenience, the data from such collections will prove extremely valuable for many workers. Researchers, using this data, will be able to document our knowledge of the ecology of plants in BC much better than can be done at the present time.

LOCATION OF RARE PLANTS

If a project requires the location of rare plants, the general inventory approach described above will usually be inadequate. A rare plant study will usually require a habitat-specific approach. In areas of good access the use of air photos and ground transport will suffice. In some cases, the most cost-efficient logistics may include the use of a helicopter. A skilled botanist can often assess and locate habitats from the air over lengthly corridors or large areas then revisit them after the air reconnaissance. Most of the rare plants in BC occur in relatively small, recognizable habitat units thus the use of either random or restricted random sampling plots or transects is not appropriate. The habitat-specific approach requires adequate preparation and should include the following:

1. Obtaining the services of a highly qualified botanist familiar with the rare plants of the subject area. This is a not an easy task – there are probably less than 20 qualified individuals in BC that have the expertise to conduct an efficient and productive rare vascular plant survey. Qualified bryologists and lichenologists are even fewer in numbers. Most rare plant surveys fail without a competent botanist.
2. The acquisition of the most current BC CDC Red and Blue list for the area. The CDC will also provide specific site locations, habitat data and other pertinent information for rare plants of the area. The botanist will also be familiar with the major reference material (e.g., *Moss Flora of the Pacific Northwest, The Lichens of BC, The Illustrated Flora of BC, Vascular Plants of the Pacific Northwest*, etc).
3. The acquisition of topographic maps and air photographs of the area are also essential. The botanist will have sufficient air photo interpretation skills to identify potential rare plant habitat. Most rare plants are easily found when the botanist is familiar with a rare plant's habitat.
4. Knowledge of the plant's phenology, for both the species and the area in question, is necessary in order to plan survey date(s). In BC peak flowering times may vary from January to November. For many habitats, both an early season/late season survey should be planned. Phenological information is available from both the literature and herbaria collections. Local naturalists may also be helpful in this respect.

MONITORING OF RARE PLANTS

Once rare plant populations are located further inventory may be desireable for management purposes. For single plant species this inventory might range from simple measurements to complex long-term monitoring. In the case of long-term monitoring, the results are extremely important in making successful land management decisions and since these decisions can lead to expensive actions, it is critical that monitoring be effective. To be effective, sampling designs must address both statistical precison and power. An adequate design, based on the most appropriate scale and monitoring intensity, will then allow land managers to evaluate whether the project will be both affordable and effective. An excellent overview of measuring and monitoring plant populations has recently been presented by Elzinga *et al.* (1998).

GENERAL VASCULAR PLANT AND CRYPTOGAMIC COLLECTIONS

Collections should be made of all species occurring in the vegetation study plots. In addition, a survey and collection of other species occurring in the immediate vicinity, especially those on different habitats, should be made. This will allow researchers to prepare a floristic list of all species in their study area. Collection materials and methods, data compilation and label and field observation form preparation are detailed below.

COLLECTION OF RARE PLANTS

Vascular Plant Specimens

For a regular collection, enough material should be collected to cover two 39.5 x 29.5 cm herbaria sheets. (The extra material is sometimes necessary when the specimen is sent to an expert for identification). Roots should be included, where convenient, and various tools, such as knives or trowels, are helpful when digging specimens. When digging up a specimen, however, care should be taken to leave the remaining plants as undisturbed as possible. Specimens larger than a herbarium sheet must be cut or, preferably, folded. Occasionally, flowers or seeds (or other plant parts) are necessary for identification but this knowledge, which is often specific to particular families or genera, usually comes with experience. Plant material should be placed in a plastic bag with the air expressed and then kept in a refrigerator, or the coolest place possible, until the material can be dried. The samples will keep for 3-5 days if kept cool.

If the number of individual plants at a site is limited, care should be taken in obtaining voucher collections. Common sense should prevail. In the case of plants on the Ministry of Sustainable Resource Management Red or Blue lists, it is important to obtain material for verification by the BC CDC. It is usually possible to remove the necessary leaf or flower from a single plant without harming the plant. In most small populations, a knowledgeable botanist will be able to make collections of the upper parts without damaging the plant. This is especially true with most monocotyledons and pteridophytes and many dicotyledons. In the case of annuals, flowers or fruits should be taken only when a sufficient seed supply for the next season is ensured.

Cryptogamic Specimens

If the plants are growing on a soil substrate they should be lifted, cleaned and placed in a small paper bag. Some lichens, such as those growing on wood, may require a knife to remove them with their substrate. When the lichens are growing on rock a geologic hammer and stone chisel may be necessary to take them with a part of their substrate. Enough material should be collected to fill two herbaria envelopes. (The extra material is sometimes necessary when the specimen is sent to an expert for identification). Some genera (e.g., *Sphagnum)* should have excess water extracted before bagging and air-drying, while some bulky lichens (e.g., *Peltigera)* need moistening, then light pressing, as they are drying.

MATERIALS AND EQUIPMENT FOR PLANT COLLECTING

Vascular Plants

Plant press: The press (Figure 1) consists of:

a) 2 pieces of plywood 46 x 31 cm
b) 10 - 30 sheets of cardboard, cut the same size, with blotting paper attached
c) 2 belts or ropes, used to tighten the press

The collection sheets (described below), with the plant samples inside, are inserted between the cardboard sheets, which are in turn held between the outer plywood pieces (like a multi-layered sandwich!). The belts, or ropes, are then used to tighten the entire "package", pressing the samples.

Dryer: The body of the dryer consists of an open-ended plywood (Figure 2) or wooden box (with or without a bottom) measuring 46 cm long, 35-60 cm wide and at least 30 cm high. To allow for proper air circulation, the dryer should have a small air vent cut near the base (or should be raised slightly off the ground, if the bottom of the dryer is absent). A 100 watt bulb is placed in the bottom of the dryer (on a pie plate or fire resistant pad). The press is placed on edge, lengthwise, across the dryer's open top, with cardboard placed alongside to block air spaces. This will cause the warm air within the dryer to be forced through the press. Depending on the turgidity of the plant samples, the collection sheets will dry in 24-48 hours.

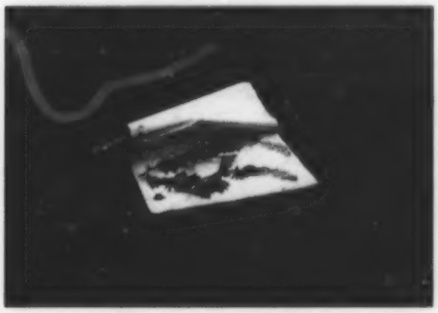


Figure 3. Plant press with cardboard and collection sheets.

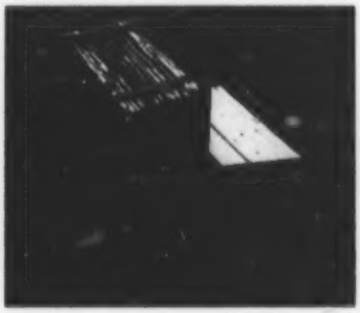


Figure 4. Plant dryer with plant press set up.

Collection sheets: These consist of sheets of raw newsprint or newspaper, approximately 60 x 44 cm, which are folded in half. Plants are placed inside the folded sheets, on one half, with the collector's number written on both the inside and outside right hand lower corner. After extracting all necessary data, the sheets, with the appropriate labels, should be given to the Royal BC Museum Herbaria or the University of British Columbia (and other herbaria if extra material is available).

Data Collection for Vascular Plants and Cryptogams

Both **labels** and **field observation forms** (when dealing with Red or Blue list species) are necessary for CDC purposes.

Labels: Labels are the most important part of a plant collection (Figure 4). A few essential items, listed below, can greatly increase the value of the collection for a variety of users:
a) **specimen name** – Identity of the specimen should be verified in a suitable reference work or in a herbarium (if the specimen belongs to a taxonomically difficult group). Taxonomy and nomenclature should follow *The Illustrated Flora of BC* for vascular plants, *The Lichens of BC* for foliose, squamulose and fruticose lichens, and the most recent North American checklists produced by *The Bryologist* for the remaining lichens and all bryophytes.

b) **collection locality** – This should include: reference to a landmark near the collection site, the elevation, the latitude/longitude or a UTM[1]. The UTM is used for later identification of the precise sampling site by the CDC and is also for mapping purposes for those using GIS (Geographical Information Systems). If the UTM is provided, a less detailed description of the locality is necessary, however, the latitude/longitude is still required to aid those users outside of BC who may not have access to BC 1:50,000 maps. References to man-made landmarks should be avoided as these are often subject to change.

c) **habitat description** (e.g., landform, moisture regime, aspect, slope, vegetative composition) – the latter is especially important. Knowledge of the dominant/co-dominant species often reveals a wealth of information concerning the ecology of the site. This data is invaluable for future retrieval of ecological and conservation data.

d) **collector's number** – This is extremely important since it will identify the collection in future scientific papers and conservation reports. Consecutive numbers are best. The use of date/number combinations is undesirable since date repetition merely creates unnecessary computer bytes. In the case of extra, inconspicuous bryophytes and lichens, which may only appear during identification under the microscope in the herbarium, these should be given additional lower case letters. These are added to the number (i.e., 264a, 264b, etc.) These become unique collections but the labels will be nearly identical.

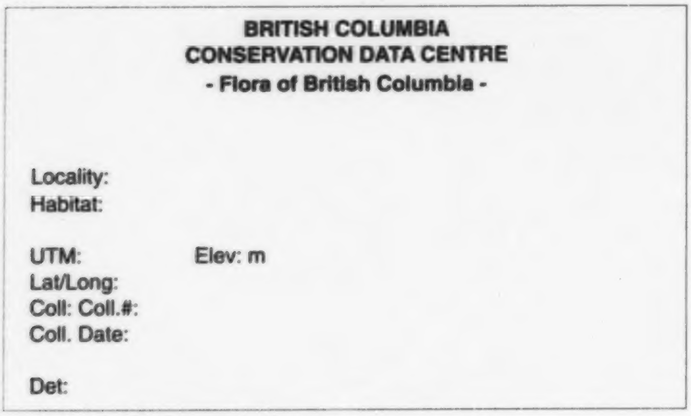
e) **collection date** – The format of YYYY/MM/DD is used by the CDC.

f) **name of identifier**

The above data should be recorded in the field (preferably in a waterproof surveyor's notebook). The order of notebook entries should approximate the label format for ease in label preparation and duplications, especially for label preparation by someone other than the collector.

---

[1] If using 1:50,000 maps for the determining of Universal Transverse Mercator Grid (UTM) coordinates, the instructions for their calculation appear in the margins of all 1:50,000 maps. Most of the latter map editions use North American Datum (NAD) 27 or 1927. Global Positioning Satellite (GPS) units have the option of using a multiple of different NAD settings, including NAD 83, the BC Government standard. All new surveys and maps will use this standard. The BC CDC also uses NAD 83 to map element occurrences. The CDC converts NAD 27 data to NAD 83 data when necessary.



BRITISH COLUMBIA
CONSERVATION DATA CENTRE
- Flora of British Columbia -

Locality:
Habitat:

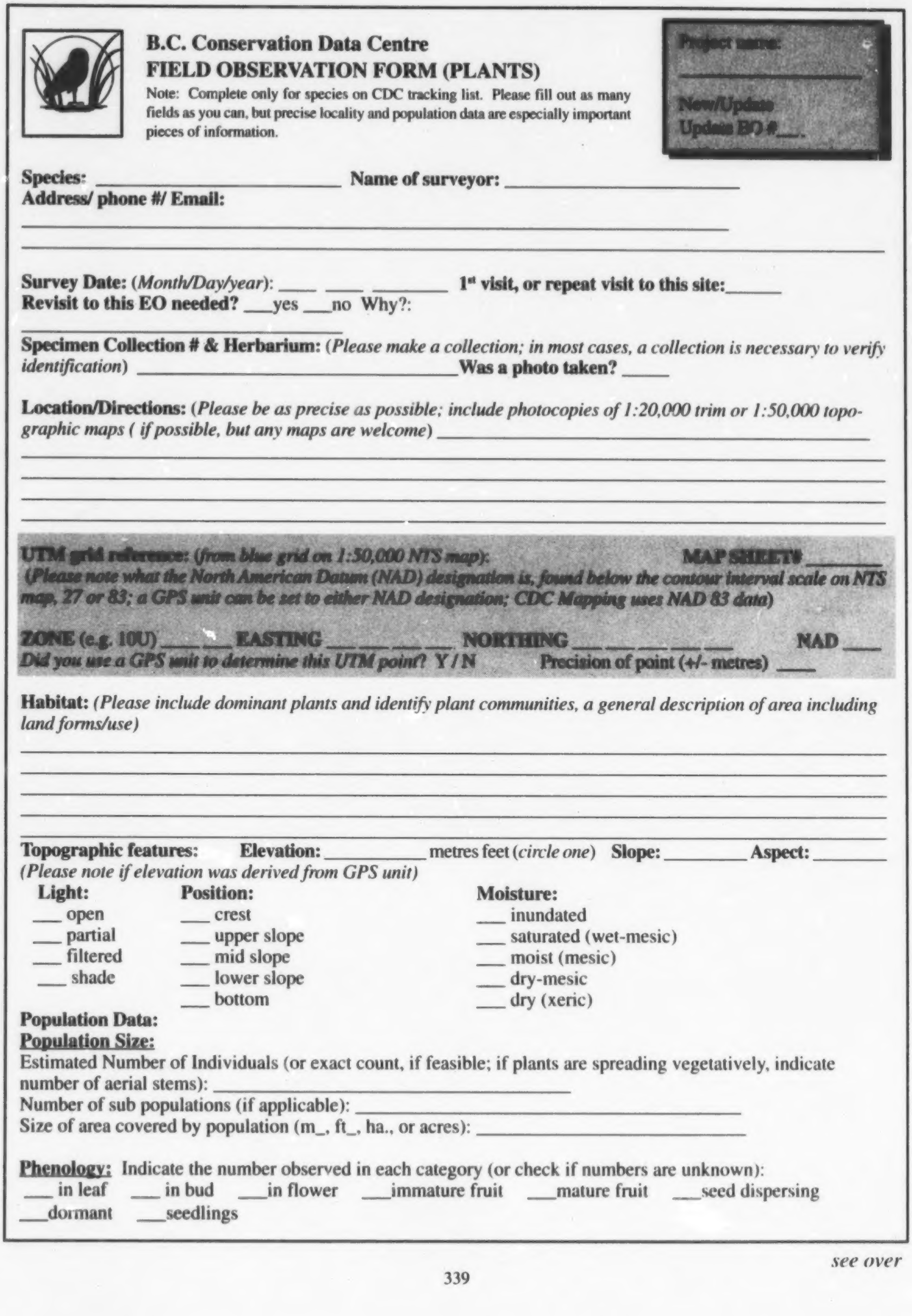
UTM: Elev: m
Lat/Long:
Coll: Coll.#:
Coll. Date:

Det:

Figure 5. Example of CDC collection label.

Field observation forms: For conservation purposes, a rare plant field observation form should be completed when a rare plant has been found (Figure 5). This will create a record in the CDC data base that is retrievable for many different users. Much of the information contained in the collection label also appears on this form. Data on the size of the plant population for the particular sample (both in area and numbers) is especially valuable, particularly for conservation rank and resurvey purposes.

Figure 6. BC Conservation Data Centre field observation form



B.C. Conservation Data Centre
FIELD OBSERVATION FORM (PLANTS)

Note: Complete only for species on CDC tracking list. Please fill out as many fields as you can, but precise locality and population data are especially important pieces of information.

Project name: ________________

New/Update
Update EO #___.

Species: ________________ **Name of surveyor:** ________________

Address/ phone #/ Email:

____

____

Survey Date: (*Month/Day/year*): ___ ___ _____ **1st visit, or repeat visit to this site:**_____

Revisit to this EO needed? ___yes ___no Why?:

____

Specimen Collection # & Herbarium: (*Please make a collection; in most cases, a collection is necessary to verify identification*) ________________**Was a photo taken?** ____

Location/Directions: (*Please be as precise as possible; include photocopies of 1:20,000 trim or 1:50,000 topographic maps (if possible, but any maps are welcome)* ________________

____

____

____

____

UTM grid reference: (*from blue grid on 1:50,000 NTS map*): **MAP SHEET#** _______

(Please note what the North American Datum (NAD) designation is, found below the contour interval scale on NTS map, 27 or 83; a GPS unit can be set to either NAD designation; CDC Mapping uses NAD 83 data)

ZONE (e.g. 10U) ___ ___ **EASTING** ___ ___ ___ ___ **NORTHING** ___ ___ ___ ___ ___ **NAD** ___

Did you use a GPS unit to determine this UTM point? Y / N Precision of point (+/- metres) ____

Habitat: *(Please include dominant plants and identify plant communities, a general description of area including land forms/use)*

____

____

____

____

____

Topographic features: **Elevation:** ________ metres feet (*circle one*) **Slope:** _______ **Aspect:** _______

(Please note if elevation was derived from GPS unit)

Light:
- ___ open
- ___ partial
- ___ filtered
- ___ shade

Position:
- ___ crest
- ___ upper slope
- ___ mid slope
- ___ lower slope
- ___ bottom

Moisture:
- ___ inundated
- ___ saturated (wet-mesic)
- ___ moist (mesic)
- ___ dry-mesic
- ___ dry (xeric)

Population Data:

Population Size:

Estimated Number of Individuals (or exact count, if feasible; if plants are spreading vegetatively, indicate number of aerial stems): ________________

Number of sub populations (if applicable): ________________

Size of area covered by population (m_, ft_, ha., or acres): ________________

Phenology: Indicate the number observed in each category (or check if numbers are unknown):

___ in leaf ___ in bud ___in flower ___immature fruit ___mature fruit ___seed dispersing ___dormant ___seedlings

see over

Field Survey Form continued

Element Occurrence Spatial Information:

Type of Source Feature: Single Source EO __ Multi-source EO __

Conceptual Feature type: Point __ Line __ Polygon __

Observed Feature Area: Acres/Hectares____ Length____________ Width_________

Spatial Uncertainty: Neglible__ Linear__ Areal-delimited___ Areal-estimated___

If **Areal-delimited**, delimited by what?________________________________

If **Areal-estimated**, ESTIMATED UNCERTAINTY (m/ ft):________________________

(For example, you are accurate to within some amount m/ft)

Confidence Extent: Y Confidence that the full extent of the occurrence is known.
N The full extent of the EO is not captured by the EO representation
? Uncertain if the full extent of the EO is known.

Area for sketch:

Landscape context (degree of fragmentation and connectivity, species composition, biological structure, ecological processes, and abiotic factors in the surrounding area):

Condition: *(Condition is an integrated measure of the quality of biotic and abiotic factors, structures and processes within the occurrence, and the degree to which they affect the continued existence of the occurrence. Components of condition for species are:* ***1****) reproduction and health,* ***2****) ecological processes,* ***3****) species composition and biological structure,* ***4****) abiotic physical/chemical factors. Factors to consider: evidence of regular successful reproduction, habitat degradation, disturbance, presence of exotic species, the degree to which ecological processes are sustaining the habitat. Where possible include a comparison to other occurrences.)*

Notes (*land ownership, development plans, management activities, if any, other comments*):

Please return forms to: CDC, Ministry of Sustainable Resource Management, Terrestrial Information Branch, P.O. Box 9993 Station Provincial Government, Victoria BC V8W 9R7
(fax: 250-387-2733) **THANK YOU!**

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